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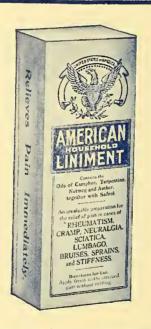
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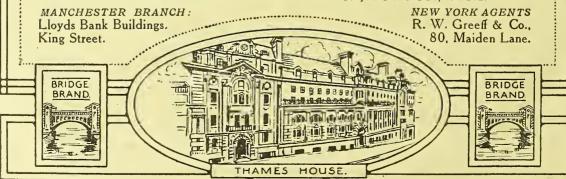
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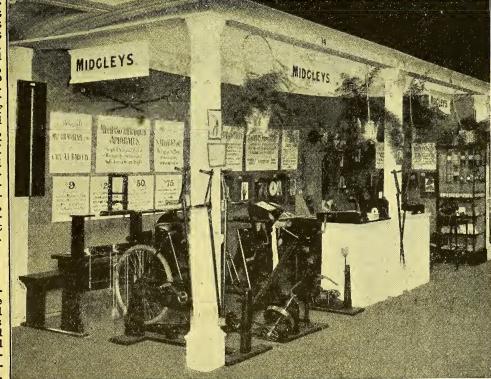
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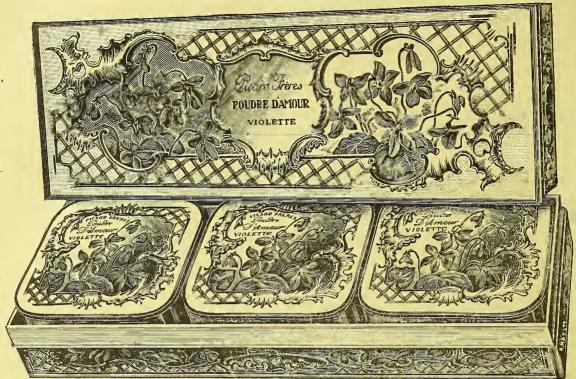
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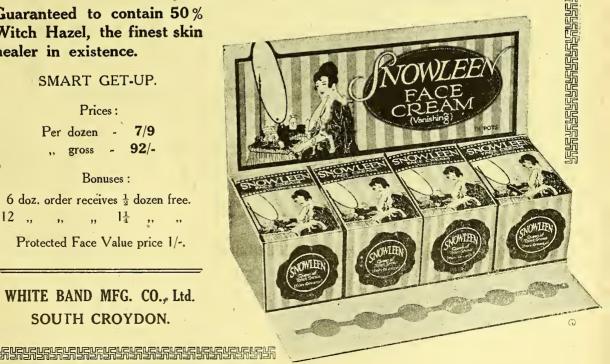
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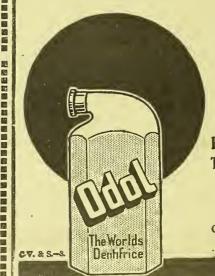
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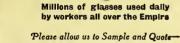
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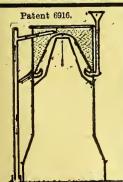
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Invaluable for binding. Displaces rubber and elastic web. More durable and one-third the cost. The Norwich Crepe Bandages, containing wool, will provide warmth, and do not absorb grease readily. Cell clining and existing, Perfectly cleansed, sterllised, and resiliency entirely restore by which the contraction of the contraction

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Provincial Selling Agents, Freese & Moon, Ltd., 59 Bermondsey Street, London. S.E. 1.
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For producing up to
1½ gallons per hour,
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AND

Queen Anne's Chambers, Westminster, S.W. 1.



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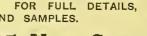
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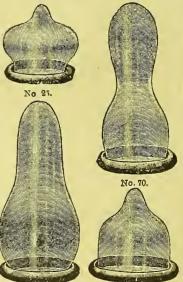




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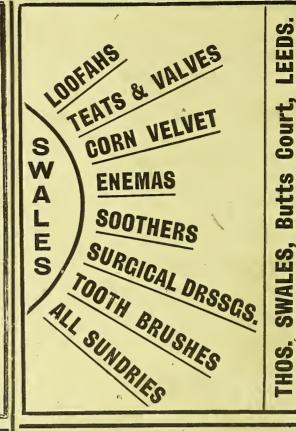
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SANITARY TOWELS.

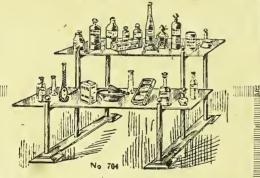
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A Smart Oak Stand with two $30'' \times 9''$ Plate Glass Shelves, dressed in a few minutes.

Also single Oak Pedestals, Showcases and Counters.

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For GREEN EXTRACTS and DRIED HERBS of BELLADONNA, HENBANE, &c.

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In consequence of the great increase in the price of Opium we are reluctantly compelled to advance our prices as follows:-

NEPENTHE 12/- per lb. DOUBLE STRENGTH NEPENTHE 24/- per lb. GLYCEROLE OF NEPENTHE 6/- per oz.

Discount and terms as usual.

The word "Nepenthe" is registered under the Trade Marks Act, and is our exclusive property. No substitute may be dispensed when "Nepenthe" is ordered in a prescription.

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FINEST BLACKS AND

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(ALL SHADES)

CARAMEL COLOUR

IN POWDER.

Guaranteed Harmless.

50

times the concentration of Liquid Caramel.

Sample on application.

Soluble in

WATER SPIRIT
OIL TURPS
WAX BENZOLINE
GLYCERINE NAPHTHA
PETROLEUM CREOSOTE

and

IN FACT—ANYTHING.

BLACK FOR INK.

MARKING INK.

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A combined Stain and Preservative for Wood.

HOUSEHOLD DYES.

RHEUMSOL BATH SALTS in 1/- Tins.

WILLIAMS BROS. & CO.

Hounslow, Middlesex.

BEFORE THE JAPANESE PATENT TRIBUNAL

Burroughs Wellcome & Co. Plaintiffs

VERSUS

Hosoda, Matsui, Imayeda & Co.

Respondents

- Trials Nos. 3513, 3514 and 3515 -

INVALIDATION of Japanese Trade Marks which simulated the well-known B. W. & Co. packing for "'HAZELINE' SNOW" which is reproduced on the right

A Japanese imitation of "'Hazeline' Snow" was offered for sale in China. In preparation for foisting this despicable fraud upon the Chinese and in

Fig. 1



No. 62,423 Filed Nov. 10, 1913 Regd. Dec. 27, 1913 Gazetted Feb. 6, 1914

Fig. 3



No. 66,905 Filed May 12, 1914 Regd. July 24, 1914 Gazetted Sept. 22, 1914

Fig. 2



No. 65,717 Filed April 1, 1914 Regd. June 6, 1914 Gazetted July 24, 1914

an endeavour to legalise it, the infringers effected registration of the three trade marks here shown. Fig. 1 is an imitation of the general design of the B. W. & Co. label. Fig. 2 imitates specific details and boldly claims ex-clusive right in the title "'Hazeline' Snow." The fictitious name "Nippon Toilet & Co.", it will be observed, is slavishly

which indicate the Foreign and Colonial Houses of B. W. & Co. Fig. 3 is an imitation of a former

issue of the B. W. & Co. Chinese label and bears a crude representation of the Unicorn design which has become characteristic of all genuine B. W. & Co. packages.

The Genuine followed by the addresses

Whilst proceedings were being taken by B. W. & Co. in Japan, the infringers endeavoured to strengthen their commercial campaign in China by circulating copies of their Japanese Trade Mark certificates, but B. W. & Co., with the assistance of one of H.B.M. Consuls, took local action, and a proclamation was issued by the Chinese Special Commissioner for Foreign Affairs in Shantung forbidding trade in the spurious article.

On April 30th, 1918, in the Japanese Patent Court, the Judges declared the Japanese trade marks:—Nos. 62,423, 65,717 and 66,905 invalid, and awarded the costs of the trials to B. W. & Co.

WARNING! Remember the trade mark "'HAZELINE' SNOW" and the distinctive packing. B. W. & Co. trade marks specifically designate products issued by them. We prosecute offenders rigorously in the interests of traders as well as in that of the public and ourselves



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If your Standard is high in what constitutes an Ideal EMULSION.-

If your Judgment is sound and you are able to appreciate the highest in quality and value, then we welcome your inquiries and criticisms, and cordially invite you to write for samples and prices. We have several styles, of real forceful selling value, which have

CHARACTER AND DISTINCTION

that give satisfaction to your customer and prestige to the retailer.

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OUR GUARANTEE BEHIND IT.

CUPAL Ltd., Blackburn

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Modern Products for Progressive Pharmacists

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All preparations of the

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Modern

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The CHEMIST AND DRUGGIST is in circulation and reputation the leading journal addressing the Chemical and Drug trades in the British Empire and other countries in the Old and New Worlds. It is the official Journal of many Chemists' Societies in Australia, Ireland, New Zealand, South Africa. many Chemists' Soci and the West Indies.

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Head Office: 42 CANNON STREET, LONDON, E.C. 4. Telegrams: "Chemicus, Cannon, London." Telephone 3617 Central (three lines). Branches: MELBOURNE AND SYDNEY, AUST.

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	Time Report

"C.' & D. DIARY," 1919.—Our annual Diary, which will be in the same form as the last issue, has, in consequence of war conditions, to go to press somewhat early, and the work of revision is already in hand. We shall reserve space for the registration of formulas for "known, admitted, and approved" remedies. Our Diary was the first book of the kind which the Revenue authorities accepted as an approved book of reference. The space reserved in the 1919 Diary for such formulas will be limited, so that truo-copies of them, with doses or other directions for use, should be sent to the Editor C. & D., 42 Cannon Street, London, E.C., as promptly as possible.

Coming Events.

This section of the "C. & D." is reserved for advance notices of meetings or other events. These should be received by Wodnesday of the week before the meetings, etc., occur.

Sunday, September 15.

United Arts Rifles, "B" Company (Pharmacists).—At 10 a.m., company parade at headquarters, Imperial College Union, South Kensington, S.W. At 9.45 a.m., musketry party at Kainham; parade at Fenchurch Street Station. (On September 18 and 19 platoon parades at 3 r.m.)

Wednesday, September 18.

Ucal Federation, London Branch, Progressive Pharmacy Club, Arundel Hotel, Victoria Embankment, London, W.C., at 3 P.M. General meeting and address by Mr. Harold Miller, Cheltenham.

European War News.

Import and Export Notices.

HOLLAND.—Oxalie acid in quantities exceeding 100 grams has been included in the list of chemicals delivery and transport of which has been forbidden.

SWITZERLAND.—The Federal Council has adopted a new decree with regard to the prohibition of exports. The export of all merchandise is forbidden, but licences may be granted by the Department of Public Economy in accordbe granted by the Department of Public Economy in accordance with the interests of the country and under fixed conditions. The Department of Public Economy and the Customs Department are entrusted with the execution of this decree. The Federal Council has also issued an order with regard to certificates of origin, and warns those concerned that any violation of the regulations will be visited with severe penalties, including imprisonment, fine, and the confiscation of the guilty firm's certificates.

UNITED STATES.—The War Trade Board announces the addition of cavadilla and honey to the export conservation.

addition of evadilla and honey to the export conservation list, effective from August 10. Export licences will only be issued by the United States War Trade Board to corporations of foreign Governments which are duly accredited

with their respective Embassies in America

Control of Chlorine and Chlorine Compounds.

An Order has been issued by the Ministry of Munitions, An Order has been issued by the Annisty of Administration of the production or use by any producer in any other trade or business carried on by him of chlorine or chlorine compounds in quantities exceeding 1 ton per month, and the supply of chlorine or chlorine compounds to any person in quantities exceeding 56 lb. per month. "Chlorine" is defined as elementary chlorine, either in gaseous or liquid form, and "chlorine compounds" includes bleaching-powder, sodium hypochlorite, all descriptions of chlorine bleach liquor, and all other compounds of or products containing chlorine which are commonly manufactured direct from chlorine, whether in gaseous or liquid form. The Order does not apply to any sale of less than 56 lb. of liquid chlorine, or less than 1 ton of bleaching-powder. The Order also fixes maximum prices of 6t. per lb. for liquid chlorine and 15t. per ton for bleaching-powder, and requires full persons holding a stock of 1,000 lb. or upwards of chlorine and chlorine compounds on October 1 to make returns of their stocks within fourteen days from that date. Such returns, as well as applications for licences, should be dated September 6, prohibiting, except under licence, the Such returns, as well as applications for licences, should be addressed to the Department of Explosives Supply (Ministry of Munitions), Storcy's Gate, Westminster, S.W. 1, and marked "Chlorine Control."

Golden Syrup.

The Grocery Syrup (Distribution to Manufacturers) Order stipulates that no one shall after October 6, 1918, purchase or take delivery of any grocery syrup or refined treacle for the purposes of any manufacturing busirefined treack for the purposes of any manufacturing business except under the authority of the Food Controller, and a person having the disposal of syrup shall not after the same date knowingly deliver syrup for any such purposes except with the authority of the Controller. A person shall not use any syrup obtained by authority except for the purposes permitted. Every manufacturer shall keep accounts and records showing the disposition of all syrup as may the disposition of all syrup as may and records snowing the disposition of all syrup as may be directed by the Food Controller, and shall produce such accounts on demand and permit his stock of syrup to be inspected on demand by any authorised person. A person shall not make or take delivery of any syrup under or in snall not make or take delivery of any syrup under or in accordance with any document where he has any reason to believe that any statement in such document is false in any material particular. This Order shall not apply to syrup used in the manufacture of articles sold for consumption on the premises of the manufacturer. Nothing in this Order shall apply to the delivery or use of syrup in Ireland or the consignment of syrup to Ireland. "Syrup" shall mean any syrup containing sugar, but shall not include malescape from syrup containing sugar, but shall not include molasses from raw sugar factories or residual molasses from sugar refineries unless the same shall have been refined by subjection to some process of filtration rendering the molasses fit for human eonsumption; nor shall it include glucose.

Personalia.

Mr. F. Howard Swales, son of Mr. Thomas Swales, druggists' sundriesman, Butts Court, Leeds, has received a commission in the Royal Engineers.

SERGEANT JOHN NEEDHAM, R.A.M.C., has been wounded on service. Sergeant Needham, who is the son of Mr. H. Needham (Needham Bros., chemists, Batley), joined the Colours in 1915, and has served in Egypt and in France.

LIEUTENANT F. M. WILSON, Suffolk Regiment, was wounded in France last month, and is now in hospital in England.

Lieutenant Wilson, who in civil life is a chemist and druggist at Stowmarket, is progressing as favourably as can be

LIEUTENANT L. HARPER, Cheshire Regiment, has been awarded the Albert Medal for gallantry in saving life on August 5, 1917. A highly explosive mixture having caught fire in a melting-pot, Lieutenant Harper crawled with a hose under the pot, which stood about 3 ft. from the ground, and directed water at the flames above him. There was imminent risk of an explosion, which would have killed Lieutenant Harper and have involved buildings in which twenty-five tons of high explosives were stored. twenty-five tons of high explosives were stored.

Miscellaneous.

TRADING FIRMS IN CHINA.—The following names have been added to the list of persons to whom articles to be exported to China may be consigned: Chung Fu Pharmacy, Ltd., Hankow; Early & Moor (Dr. A. P. Peck), Tientsin; Kodak Shop, Tientsin; Tientsin Optical Co., Tientsin.

To BE WOUND UP .- An Order has been made by the Board of Trade for the realisation and distribution of the assets of the Electro Osmose Syndicate, Ltd., Imperial House, Kingsway, London, W.C. 2, a syndicate formed to purchase patent rights for the purification of clay. *Controller:* J. R. Tulloch, 4B Frederick's Place, Old Jewry, London,

E.C. 2.

DISPENSERS WANTED.—"The Times" states that the hospital authorities in Salonica have sent urgent requests to the V.A.D. Headquarters in this country for a considerable number of trained laboratory assistants, and also for several dispensers holding either the Pharmaceutical certificate or the Apothecaries Hall certificate. The rates of pay are 39s. 6d. per week and 49s. 6d. for head dispensers, with a deduction in all cases of 14s. for board and lodging. Application may be mado to the V.A.D., Department 18, Devonshire House, Piccadilly, London, W. 1.

ENEMY PATENTS AND COPYRIGHT.—The Messerschmitt hydrogen patents 21479/08, 12242/12, 12243/12, 17691/13, have been suspended in favour of the Director of Contracts, Admiralty, and in the case of patent 17692/13 the Custodian has granted a licence to the same authority.—Applications for licences to use the following patents are to be heard at the Patent

a licence to the same authority.—Applications for licences to use the following patents are to be heard at the Patent Office Court on September 19 and 20: Patent 11140/18 Edeleanu ("Purifying Crude Petroleum")—applicant The Pure Russian Liquid Paraffin Co., Ltd.; Patent 2562/13, Fischer ("Colour Photography")—applicant Mr. F. J. Shepherd.—Macmillan & Co., Ltd., are applying for copyright in the illustrations of certain works belonging to alienenmies to be yested in the Custodian, and for a licence to reproduce such illustrations. Among the books mentioned is Sachs' "Textbook of Botany."

The London Salon of Photography.

To get away from the obsession of war work and war talk To get away from the obsession of war work and war talk one might do well to pay a visit to the Salon at 5a Pall Mall East, London, S.W. There are, of course, war portraits, and there is a distinctly good picture of soldiers in full kit at a railway station—No. 58, by F. J. Mortimer—but in the main one moves in an atmosphere of peace. Landscape, with its reminder of Nature's beauty, dainty portraits of fair women, strong pictures of the sterner sex, lovable children, and noble architecture are all represented here by the medium of a science that is also an art. The here by the medium of a science that is also an art. The Sâlon is justifying its claim to exhibit only those works Salon is justifying its claim to exhibit only those works which show personal artistic feeling and execution. Among the landscapes we notice No. 187, "Winter's Tale," by H. Y. Sümmons, a tinted snow scene, where the warm sunlight contrasts with cool shadows thrown by tree trunks, and No. 244, a colour picture in a French village, by George Hidderley. No. 292 shows a bizarrc effect of trees laden with snow. No. 304 is a most delicate and decorative picture with a landscape seen through a screen of cherry-blossom, and reminds one of a Japanese print. In No. 22 the Earl of Carnarvon has been most happy in his selection of a model. No. 16, by S. W. Shore, is a portrait of an old lady very well posed and lit. A low-toned portrait of Doris Keane, by Hugh Cecil, and several portraits by Bertram Park show what can be done by straightforward posing and lighting without any straining after effect. Richard Polak has some successful pictures full of delicate detail, and strongly reminiscent of Dutch interiors by the old masters of painting. A picture that should interest all is No. 42, "Child Welfare—a Consultation," which is topical. No. 217 is an excellent portrait of Lord Reading. No. 189, an old cloister, in colour, produces a brilliant sunlight effect where the sunshine is streaming past the columns. No. 274 and 276 are good studies of acceptance work in the columns. light effect where the sunshine is streaming past the columns. No. 274 and 276 are good studies of architecture. Figure work and children's portraits are distinctly good.

Military Tribunals' Decisions.

SINCE OUR LAST REPORT the following decisions have been notified:

BROMLEY (KENT).—Messrs. H. H. Cuthbert, chemist and druggist, and A. Hall, assistant with Mr. J. Timmis, chemist and druggist, were exempted for six months.

DAWLISH.—Mr. G. Priddey, chemist and druggist, substitute for Mr. S. R. Davis, chemist and druggist; was conditionally exempted; Mr. Davis was ordered to be available.

on September 14.

Dewsbury.—Mr. G. H. Duncan, assistant with Mr. J. S. Flower, chemist and druggist, was further exempted to November 14.

November 14.
EARL SHILTON.—On review, two months' open exemption was substituted for the conditional exemption held by Mr. A. Toon, chemist and druggist.
FULHAM.—Mr. W. Goodacre, assistant with Parke's Drug Stores, Ltd., was exempted for four months.
HONITON.—The N.S.K.'s appeal against the exemption held by Mr. B. Dyer, chemist and druggist, was allowed, grace till October 19 being given. The N.S.R. further applied for leave to go to the Central Appeal Tribunal on the ground that the period of grace exceeded that agreed upon in consultation with the Pharmaceutical Committee. Leave was refused. was refused.

was refused.

HORNSEY.—Mr. G. E. Dickinson, apprentice to Mr. G. Dickinson, chemist and druggist, Highgate, was exempted for six months, with leave to apply again.

LEWES.—Mr. R. B. Calderwood, chemist and druggist, was granted renewed exemption for three months.

MALVERN.—Mr. H. F. Lynex, assistant with Mr. J. Need, chemist and druggist, was exempted to December 5. It was stated that although now graded "1," Mr. Lynex had been three times rejected, and acting as a substitute had released a fit man for the Army.

MELTON MOWRAY.—Mr. A. E. Brownlow, assistant with

MELTON MOWREAY.—Mr. A. E. Brownlow, assistant with Lis brother, Mr. R. W. Brownlow, chemist and druggist, was granted temporary exemption for three months in place was granted temporary exemption for three months in place of conditional exemption. It was stated that although the release of Mr. A. E. Brownlow was suggested by the Committee set up under the National Insurance authorities, he hed held an optician's certificate for over ten years, and is a Fellow of the Spectacle-makers' Company.

MORECAMBE.—Mr. Knowles, assistant with his father, Mr. R. Knowles, chemist and druggist (a member of the Tribunal), was finally exempted to September 30, on which date, it was understood, a substitute will be available.

TRURO.—Mr. A. C. Cannon, chemist and druggist, was conditionally exempted.

SHOREDITCH.—Mr. J. C. May, assistant with G. Pasco & Son, chemists, was conditionally exempted for six months. SURREY.—At a recent sitting of the Tribunal, Sir Edmond Elles remarked: "A Surrey pharmacist called up three months ago has been put to scrubbing prisoners' tables."

months ago has been put to scrubbing prisoners' tables.

ONE-MAN BUSINESSES .- New and far-reaching proposals concerning one-man businesses were outlined at a recent meeting of Manchester tradesmen. The policy suggested is that the preservation of such businesses must be secured by businesses. the preservation of such dustnesses must be secured by ousness men themselves, every man under fifty-one years of age being brought into the scheme. To this end panels for the different trades will be set up in every town, and each business will be dealt with separately; while every man who is left in his business will be liable to render assistance in the conduct of the business of a man who has had to go. It will be in the power of the National Service Representative to instruct the exempted man to close his business for one or two days periodically, and Representative to instruct the exempted man to close his business for one or two days periodically, and to manage some other business during that time. Every proprietor of a business will be required to set out particulars of his trading on a form; should he refuse his exemption will be reviewed. It is expected that a fuller statement will be made shortly at a meeting to be converted for that purpose in meaning the properties of the statement will be made shortly at a meeting to be convened for that purpose; meanwhile, particulars may be obtained from Mr. A. Cooke, Hon. Secretary of the Manchester and District Onc-man Business Association, 29 Corporation Street, Manchester.

ABYSSINIAN CIVET.—The Aden Port Trust does not supply separate figures for the trade in civet, but groups it under the head of perfumery, the total imports of which into Aden the head of pertumery, the total imports of which into Aden in 1916-17 were valued at 8,000l., against 5,460l. in the preceding year. Probably 60 per cent. of this total was Abyssinian civet imported via Jibuti. The total exports of civet from Aden were approximately 6,000l. in value, of which about 70 per cent. went to France and nearly 25 per cent. to the U.S.A. During the preceding year nearly 60 per cent. of the total exports were to the United States.

English and Welsh News.

The Editor would be obliged if subscribers would send him marked copies of newspapers containing items of interest for insertion in this or other news sections of the "C. & D."

Disabled Ex-Service Men's Exhibition.

An exhibition-is being held under Y.M.C.A. auspices in the Free Trade Hall, Manchester, with the object of showing what is being done for men disabled in the war. Among the features of special interest to pharmacists are numerous the features of special interest to pharmacists are numerous appliances for overcoming or ameliorating physical disabilities. The stands of Charles Midgley, Ltd., comprise an exhibit of apparatus of this kind designed so as to be within the reach of institutions of all descriptions from the standpoint of cost. There are on view here machines for exercising the fingers, wrist, shoulder, etc.; a cycle machine for leg exercise; a "foot drop" machine; and many other ingenious mechanical contrivances. Several types of electromedical and array apparatus and a fore-arm lever walkingstick crutch are also shown. James Woolley, Sons & Co., Ltd., nave a display of surgical instruments, hospital furniture, and invalids' requisites, including first-aid outfits meeting the requirements of the recent Home Office Order. Among and invalids' requisites, including first-aid outfits meeting the requirements of the recent Home Office Order. Among other prominent names in the catalogue are those of the Clayton Aniline Co., Ltd., who make a feature of aniline colours and intermediates; the "Star" Shield Co. (Mr. F. C. Lynde), who show a non-slip crutch pad and other appliances; Pifco, Ltd., makers of "everything in flash lights"; and Mr. George Box, surgical-appliance manufacturer. The exhibition remains open till September 21.

Birmingham.

The sale of acid-drops appears to be at an end here.

The costly Turkey sponge sells well just now, for workers like good things and can afford them.

A customer for linseed oil was recently refused supply here because he had not a Class A certificate.

The trained nurse has made her appearance in pharmacy, and is installed in some of the central shops of the city.

Mr. Gilbert C. Vyle, chairman of Averys, Ltd., has been appointed a member of the Commission on Decimal Coinage.

The pharmacy of Mr. Izon, High Street, Aston, had a narrow escape during the flooding caused the other day by a burst water-main. Luckily the water did not cross the

Mr. J. E. Bagnall, of Aston, well known to local pharmacists for his scientific attainments, has died at an advanced age. He was the author of a catalogue of the flora

"Dispenser.—Lady desires post in Birmingham: partly qualified," runs an ambiguous advertisement in the "Birmingham Post." The lady locum, by the way, commands a

good salary in these parts.

Lieutenant James Barbour Coventry, Royal Warwickshire Regiment, who is the eldest son of Mr. James Coventry (well known to Birmingham pharmacists as a journalist, and a visitor at their social functions), has been seriously wounded, and is now in hospital near Cambridge. Lieutenant Coventry was studying dentistry at Birmingham University when war broke out.

Leeds.

The latest "boom" in this city is in candles and night-lights, consequent on the restrictions in gas and electricity. There is already a scarcity in all wax products, and orders are being cut down considerably.

Much as St. Dunstan's Hostel for Blind Soldiers is deserving of consideration, it is questionable if posting concert tickets at 12s. 6d. each to Leeds chemists (and probably other business men in the city) is the best method of furthering a good work. Twenty-five shillings for self and wife is a rather heavy contribution these days.

Now that sesame oil is being used pharmaceutically, it is interesting to note that in some countries it was compulby a well-known test to detect the presence of margarine in butter. As the present price of the oil is about 73. a gallon, it should produce a reasonably inexpensive lin.

The other day a child aged about eight walked into a pharmacy for "Three penn orth of carbolic acid, please." In answer to the inquiry if she had brought a bottle, she produced a stout-bottle with the original label intact. On the pharmacist explaining that it was impossible to put the acid in such a bottle she said, "Well, it's 'ad it in afore"; and on examining the bottle an appreciable quantity was found remaining from the last purchase.

Liverpool.

Window- and counter-displays demonstrate that the people are resorting more and more to the chemists and druggists for sugar substitutes and toilet requisites.

Boys are steadily disappearing from pharmacies. The lady assistant, the girl messenger, and the female "shop boy" are the Three Graces of the retail trade.

Mr. L. Moreton Parry has issued a circular to pharmacists

à propos of military service, adducing facts to show that the local ranks of pharmacy have been depleted almost to breaking-point.

It is expected that a well-known lady pharmacist, a pioncer among her sex in the profession, and an expert in the problems of everyday pharmacy, will read a paper before the Liverpool Chemists' Association during the winter session.

Session. Mry C. Hanson, Ph.C., Aigburth Road, Grassendale, has re-opened his pharmacy after a fortnight's closure owing to illness. During the interval his branch post-office business was transferred to Mr. T. S. Wokes, Ph.C., Grassendale Pharmacy, a Past-President of the Liverpool Chemists' Association.

Association.

Across-counter Dialogue.—Well-dressed Man: "Four ounces of salts of lemen." Pharmacist: "For what purpose?" Customer: "Why do you ask?" Pharmacist: "The law requires me to do so." Customer: "Dora," again, I suppose. Well, I intend to take a teaspoonful with each cup of coffee." Pharmacist: "Then you will soon be dead, sir." Customer (amazed): "Dead with Epsom salts!" Pharmacist: "You asked for salts of lemon." Customer: "Thank you for averting a tragedy." Sale effected.

Sheffield.

The city is being adorned with placards directed against the co-operative system of trading.

The greatest difficulty is being experienced in securing a modified supply of turpentine for medicinal purposes. Some of the wholesale buyers are only allowed 20 gals. a month.

The Council of the local Society is supporting the closing of shops at 7 P.M. as suggested by the Early Closing Association. Boots, Ltd., are closing their central shop at 6 P.M., with provision for dispensing.

An adverse balance is outstanding against the Pharmacy Athletic Club, most of the young members of which are with the Forces. Mr. H. B. Hammond, 19 Haymarket, would be pleased to receive donations towards settling the

The jubilee session of the Sheffield Pharmaceutical and The Judice session of the Shemed Pharmaceutear and Chemical Society promises to be very successful. Among the contributors to the programme are Mr. S. W. Woolley (Editor of The Chemist and Druggist), Mr. F. Pilkington Sargeant, Mr. W. P. Evans, and Mr. W. S. Glyn-Jones,

A general meeting of local chemists is being called for the purpose of considering and taking action upon the advice offered by the Sheffield Society's Council in the matter of Elliman's Embrocation. The Council advises that the article be not sold until the embargo on the two wholesale houses is removed.

Miscellaneous.

RAILWAY RATES.—The Great Western and London and North Western Railway Companies have given notice of an increase of rates between Bromborough and London for the

increase of rates between Bromborough and London for the carriage of oleic acid, glycerin, palmi oil, stearine, mineral lubricating oil, etc. The old and new rates are given in the "London Gazette," September 10.

ANALYSTS' SALARIES.—At a recent meeting of the Wigan Town Council the salary offered to a prospective analyst—2001. per annum—was the subject of adverse comment. It appeared that this figure had been arrived at after a return had been compiled from figures supplied from several Lancashire boroughs, and that the Committee in charge of the matter considered the salary a good average one.

Prospecting for Personerum—Extensive prospecting for

PROSPECTING FOR PETROLEUM.—Extensive prospecting for petroleum and its products is in progress in the High Peak district, Derbyshire. Some seventy years ago a stream of petroleum oil was found at Pye Bridge, and for two years it yielded 300 gals. a day. Shale and rock oil are also found in the district. A four-inch layer of sulphur exists in the mines at Bradwell; it has also been traced at Tideswell Moor and in the Oden Mine, Castleton.

GREEK COMMERCIAL DELEGATES' TOUR.—Under the auspices of the Federation of British Industries, a company of delegation of British Industries, a company of delegation of the Federation of British Industries.

of the Federation of British Industries, a company of delegates from Greece will make a tour among selected industries in Great Britain extending over about five weeks during September and October. The visitors, among whom are Mr. L. Oeconomides, chemical manufacturer, are headed by the Greek Minister of Agriculture. Among the works over which they will be conducted are those of the United Alkali Co., Ltd., Widnes, and Lever Bros., Ltd., Port Sunlight,

DEVELOPING THE DYE INDUSTRY.—At Chester, on September 6, the Light Railway Commissioners considered the application of Levinstein, Ltd., chemical manufacturers, for authority to construct a light railway in the Ellesmere Port district of Cheshire. Messrs. Levinstein propose to acquire the Hooton estate of 2,200 acres. The estimated cost of the line is 75,000l. A draft order was approved subject to a friendly arrangement between the promoters and the London and North-Western and Great Western Joint Railway to protect the joint companies' rights.

LIGHTING AND HEATING RECOMMENDATIONS.—The Halifax Chamber of Trade has decided that local shopkeepers be recommended to close their establishments from the beginning of October to the end of March next at 6 P.M. on Mondays, Tuesdays, and Wodnesdays, 1 P.M. on Thursdays, 7 P.M. on Fridays, and 8 P.M. on Saturdays. This decision was reached despite a declaration by the borough electrical engineer that earlier shop closing would affect very little coal-saving at the electrical works, and by the borough gas ergineer that, though the lighting would be reduced by 45 per cent., fuel would not be saved in the same ratio.

EARLY CLOSING.—The Farly Closing Association 34.40 Lud-

Early Closing Association, 34-40 Ludgate Hill, London, E.C. 4, have been conducting an inquiry as to the opinions of municipal bodies and trade Associations on the feasibility of making 7 o'clock the time for compulsorily closing shops. The result is that 209 towns have declared in favour of 7 o'clock closing, and four towns would like the closing hour to be 6 o'clock. Fifty-six towns decided to take no action in the matter, while fifteen are in favour of the present order being continued and fifteen would agree to 7 o'clock if two late nights per week could be arranged. Some towns are already closing at 7 o'clock. In the list of Associations favourable to this hour is the Manchester Pharmaceutical Association.

IN THE COURTS.—At Bow Street Police Court, London, on September 9, Henry Rowe, a temporary postman employed in the West Central district, was remanded on a charge of stealing a letter containing a postal order for 12s., addressed to Squire & Sons, Ltd., chemists, Oxford Street, W.—At the same court on September 11, William Harrison, butcher, Ealing, was fined 20l. for causing a mare affected with parasitic mange to be driven on a public highway. It was stated that the disease had been communicated to the man in charge of the animal.—At Lambeth Police Court, London, on September 9, Reginald Tanner, Albany Road, S.E., described as a wholesale chemist, was further remanded on a charge of stealing and receiving paraffin-wax valued at 45l. (C. & D., September 7, p. 35).

Sale of Food and Drugs Acrs.—At Chatham on September 10, Mr. Harry Cook (Cook & Co.), chemist, High Street, Chatham, was summoned for selling spirit of nitre deficient of ethyl nitrite to the extent of 42.7 per cent. Defendant pleaded guilty, and stated that spirit of nitre is very volatile, and evaporates so soon as the stopper is removed from the bottle. He had been in business twenty-six years and had never had a complaint against him before. The spirit came from the last of three 1-lb. bottles which he bought from the firm with whom he usually dealt for this class of goods on June 25. The Chairman: The analyst says no change had taken place to interfere with the analysis.—Superintendent Rhodes said he had taken a good many samples from Mr. Cook's two shops during the last eighteen years and had always found everything correct. The Bench imposed a fine of 40s., and 5s. costs.

Spices in Switzerland are becoming scarcer day by day; it is reported that pepper has sold at 30f. per kilo.

HINDENBURG'S METAPHOR.—The Hindenburg manifesto recently given in the daily Press contains the following admission: "The enemy is ingenious. He knows how to mix the little powder for everyone." This looks like an oblique tribute to the success of the Allies in doing without German fine chemicals.

More German Tricks.—The custodian of alien property in the United States has caused the arrest of Herman C. A. Scebohm, Dr. R. J. Pabst, Dr. Albert Segin, Dr. R. Hutz, and A. Reiser, former directors of the Bayer Company, on charges of eonspiracy to occure for Germany the chemical industry which that country has forfeited through its war on civilisation. The trick was for the Bayer Co. to pretend to purchase the output of a colour company established at Rhode Island at prices which would have given the latter company a profit of 120,000. yearly. This profit the Government has found, in its investigations, was being employed by the Germans mentioned above to purchase land on the new Jersey water front so as to establish for Germany a chemical industry ostensibly under American ownership.

Irish News.

Brevities.

An outbreak of fire occurred in a store in Carey's Lane attached to the Cork Chemical and Drug Co. Fortunately the fire was noticed early, and the brigade quickly extinguished it.

At a meeting of the Irish Chemists' Assistants' Association, held at 38 Upper Sackville Street, Dublin, on September 9, it was announced that the Association had been amalgamated with the Shop Assistants' Union.

The Privy Council in Ireland has approved of the appointment of Mr. Geo. Ebrill, B.A., to be an examiner in the pharmaceutical and general chemistry division of the Licence examination of the Pharmaceutical Society of Ireland.

Harrington & Sons, Ltd., Cork, entertained all their employés to an excursion on September 1. A special train was secured to take the 160 employés and their friends to Crookstown. The whole party then drove to Ryccourt, where lunch was served and an entertainment provided.

Mr. M. John Foley, drug-store proprietor, 136 Parnell Street, Dublin, was fixed 1t. at the suit of the Dublin Corporation on September 6, in the Northern Police Court, Dublin, for failing to comply with the Closing Order in keeping his shop open for customers after 9 P.M. on August 22.

Mr. R. F. McCartney, Ph.C., Chairman of the Coleraine Urban Council, presided at a meeting in the town in aid of recruiting for the Queen Mary Army Auxiliary Corps. Mr. Huston Lancashire, Ph.C., Ballymena, performed a similar duty at Ballymena in his capacity as Chairman of the Urban Council of that town.

The Local Government Board has intimated to the Listowel Board of Guardians that it cannot sanction the proposed increase of salary to Mr. D. H. Leane, Ph.C., eompounder to the warehouse, as it could not change tho scale of salaries with regard to Mr. Leane. It was agreed to ask the Board to reconsider its decision, as Mr. Leane was as well entitled to an increase as other officers of the Union.

The fund inaugurated by the Ulster Drug Trade Association to assist the Ulster Prisoners of War Fund is making good progress. The Chemists' and Druggists' Society of Ireland and the North Irish Pharmacists' Association are co-operating, and at a meeting of the Committee of the former body on September 4 Mr. W. J. Rankin reported on behalf of Mr. Jas. Tate, Ph.C., that up to date 60% had been received on behalf of the retail chemists' section.

At Lurgan Board of Guardians last week the Local Government Board wrote forwarding a communication which had been received from Fred Storey, Ltd., drug contractors, Belfast, relative to the delivery of medicines ordered for use in the Portadown Dispensary. It appeared from the letter that one hamper had been delivered at the residence of a medical locum tenens, but the company had written to the medical officer asking him to obtain locally anything urgently needed at their expense. The Guardians accepted the contractors' explanation as satisfactory. The Local Government Board also returned a requisition for a supply of medical and surgical appliances for use in the Union workhouse, with the remark that the total cost of the articles ordered appeared high. One dozen scalpels and one dozen clinical thermometers scemed to be rather large orders. The medical officer said the requisition would not be as expensive as was imagined, and the Guardians were satisfied with his explanation.

Scottish News.

Brevities.

Dr. John Smith, who recently died at Callender at the age of ninety, was one of the oldest practitioners in Scotland. He was the great-grandson of Robert Paterson, the original of Sir Waltex Scott's "Old Mortality."

Heather honey, so much in request in the autumn season, will soon be obtainable. Scottish beekeepers have removed their hives to the moors. From 3s. and 3s. 6d. per section is the current price, which leaves little room for a retailer's

A scheme for collecting sphagnum moss has been launched at Stonchaven, the object being to gather as much as possible before the difficult season sets in. It is expected that 200 voluntary workers will secure a total of about 1,900 bags of moss. It was stated at a preliminary meeting that they had been asked in the North of Scotland to provide 100,000 bags of moss to keep the eleaning machines going during the winter months.

Opposition to the proposed Ministry of Health has been referred to lately in a presidential address delivered by Mr. J. Frew, sanitary inspector for Linlithgowshire, at the annual Congress, of Sanitary Inspectors' Association of Scotland Mr. Bress annual Congress of Santary Inspectors Association of Section. Mr. Frew is of opinion that "if we were to make full use of the powers we already have, instead of asking for more, it would be better for the country." He adds that the preservation of health is "mainly a woman's question."

Dundee.

The Dundee Royal Infirmary has obtained an additional 20 milligrams of radium at a eost of 280%.

The facilities for instruction to disabled soldiers in practical and applied chemistry at Dundee University College are to form the subject of an inquiry by the Joint Disablement Committee for Central Scotland.

Edinburgh.

Once in a while a stray traveller still tries to influence sales by showing somebody else's order in his notebook.

Ieilma Cream, fly-papers, several kinds of infants' foods, and packages of ehloride of lime are practically unobtainable locally.

It was with mixed feelings that a pharmaeist said farewell the other day to the last of his pre-war phenacetin, which he had purchased at 5s. per lb.

With tooth-brushes at current prices, one wonders what has befallen the notion of a decade ago that each brush could only safely be used once. The alternative, to boil the brush for five minutes before and after use, could scarcely be successfully attempted either.

A somewhat serious outbreak of fire occurred during the early hours of September 4 at the Central School of Pharmacy, 26 Clyde Street (Principal, Mr. W. B. Cowie, Fn.C.). Considerable damage was done, the roof and the contents of a top-floor laboratory being destroyed. Mr. J. Gordon Nicholson, Ph.C., was one of the members of the Fire Brigade in attendance.

Years ago a wily wight succeeded in unloading large quantities of a certain commodity among local chemists, receiving cash upon the spot. The stuff stuck then like a burr, and frantic attempts were made to get rid of it at any price. But this year one chemist has sold six dozen at face-price, because more popular substances are unobtainable.

A city chemist has discovered a way of amusing his visitors, who have, it appears, enjoyed the experience. One evening he took home a stone of magnes, sulph, and showed them how to put up penny packets. Next evening there was liquorice-powder, and other nights were devoted to boxes of pills, etc. Before their visit was over he had to refuse to allow his guests to come to the shop in the mornings!

Glasgow.

The Scottish Co-operative Wholesale Society, Ltd., announces its jubilee, and states that the annual sales have increased in fifty years from 81,094/. to 17,767,100/.

A bowling-match, arranged by the Glasgow Pharmaey Athletic Club, took place on Wellcroft Green on September 3. Four rinks took part. Mr. Geo. McDonald's rink won the prizes. The following were the skips and seores:

Ir. Geo. McDonald		 29 Mr. J. T. Simpson	 	11
Ir. John Logan	•••	27 Mr. W. D. Paterson	 	35
Ir. Horace G. Gray		20 Mr. David Black	 /	
fr. James Moir		 16 Mr. H. P. Arthur	 	14



The recent exhibit of Stafford Allen & Sons, Ltd., at the British Industries Fair, Glasgow.

Colonial and Foreign News.

E. M. De Souza & Co., Rangoon, have decided to commence the manufacture of chemicals on a large scale, and have acquired 16½ acres of land within easy reach of Rangoon. They have engaged the services of Dr. H. K. Len and four other qualified chemists. The new venture will be known as the Rangoon Pharmaceutical and Chemical Works. CHEMICAL COMPANIES' REFORTS.—According to the annual report of the Chemische Fabrik Grünau Landshoff & Meyer A. G., in Grünau, near Berlin, this concern made a net profit of 404,007m. (in 1916, 366,584m.), and is paying a 12 per cent. dividend (1916, 10 per cent.).—The Chemical Works, Rhenania, Aix-la-Chapelle, have raised their capital by 6,000,000m. to 15,000,000m. for the purpose of acquiring the Hönningen Chemical Works. The original capital has been raised by 3,000,000m. to 12,000,000m.—It is stated that the Farbenfabriken vormals Friedrich Bayer & Co., in Leverskusen, is contemplating an extension of its premises, in which the manufacture of artificial rubber is to be carried on on a Arge scale.

in which the manufacture of artificial rubber is to be carried on on a kerge scale.

Potassium Salts from Chile.—A great production of potassium is looked for in Chile, says "Mercurio." It is hoped that in a short time the country will be rid of the German monopoly, as it is possible to extract large quantities in Chile economically. The Du Pont Nitrate Co. has produced it with financial success, and supplied the seerct processes to the English and French companies which at present extract nitrate. This company has produced 10,000 tons of nitrate in the year, with a proportion of 25 per cent. of nitrate of potash; this is equivalent to nearly 1,200 tons of oxide of potash. Counting the other nitrate companies, it would be possible to produce 240,000 tons a year.

companies, it would be possible to produce 240,000 tons a year.

Benzol Process of Fat-extraction.—The "Münchner Neueste Nachrichten" states that a new process of extracting fat from bones by means of benzol has been discovered. Experiments conducted by the War Committee for Substitute Fodder have proved that in the benzol process practically all the fat is extracted from the bones, whereas in the autoclave process hitherto in uso a residue of 4 per cent, and more of fat is wasted. The work will be transferred, from the autoclave plants to the benzol factories only when the former on account of some irremediable defect can no longer be run economically. Nevertheless, new autoclave plants will not be licensed if a benzol factory exists close by. According to competent authority, there are enough of these factories in the Empire to deal with all bone leavings, and the necessary benzol supply is also assured. The Committee has already begun to make use of benzol extraction-plants, and the War Department has declared its willingness to take over existing autoclave plants for utilisation in occupied territory.

The Uses of Wood Flour.—Wood flour is prepared chiefly from sawdust and other wood waste, which is ground between hard millstones not too fine in the grain. Fast centrifugal machines are sometimes used, but these require frequent repairs, and their output is not much greater than millstones. Wood flour is generally made in two sorts, Nos. 0 and 1. It can now be produced of a fineness almost

frequent repairs, and their output is not much greater than millstones. Wood flour is generally made in two sorts, Nos. 0 and 1. It ean now be produced of a fineness almost imperceptible to touch. As baking-flour may no longer be used as "dredging-flour," bakeries are now employing instead a fine, soft, rather yellowish-white wood flour, as well as red and white beechwood flours. For this purpose wood flour is also used roasted. There is a roasted, non-resinous, yellowish wood flour on the market under the name of "Germania Wood Flour," and this is used as a dredging-flour for baking-purposes. Wood flour is also used in the production of explosives (blasting-powder, "Lithofrakteur," new dynamite). For this purpose soft and almost white flour (No. 10) and coarser, rather yellowish-white hardwood flour are specially suitable. Wood flour is generally used instead of kieselguhr for the absorption of nitroglycerin. In many explosives, however, the wood flour merely serves to absorb salt solutions (chlorate and nitrate of potassium and nitrate of sodium). The flour is saturated with the salt solutions, sulphur is (ehlorate and nitrate of potassium and nitrate of sodium). The flour is saturated with the salt solutions, sulphur is added, and the mixture is then dried. Although the shortage of linseed oil and of jute has stopped the manufacture of linoleum, wood flour is largely used in Germany instead of eork-wood for this purpose. In the manufacture of wallpaper wood flour is used stead of flock. It is generally coloured first, and then sifted on to the paper, previously coated with an adhesive substance. Wood flour is also used in the manufacture of so-called artificial wood, "stone wood" (xylolith), pasteboard, packing-paper, and bandages. That used in the manufacture of so-called artificial wood, "stone wood" (xylolith), pasteboard, packing-paper, and bandages. That used in the manufacture of so-called artificial wood, "stone wood" (xylolith) can be a supposed to the substance of the wood" (xylolith), pasteboard, packing paper, and bandages. That used in the preparation of the last-named is of pine wood, the tannic-acid content of which has healing qualities.

New Companies and Company News.

P.C. means Private Company and R.O. Registered Office.

GIBSON'S MEDICAL HALL, LTD. (P.C.).—Capital 6,0007. Objects: To acquire the business of Gibson's Medical Hall, carried on at 55 Donegall Place and 6 Great Victoria Street, Belfast. The first directors are: Adam Gibson and W. J. Pollock. R.O., 55 Donegall Place, Belfast.

Pomeroy's, Ltd. (P.C.).—Capital 10,0001. Objects: To acquire the business and assets of Aero Undertakings, Ltd., and all the letters patent, provisional specifications, inventions (whether protected or not), and recipes of medical cures of John Pomeroy. R.O., 4, Pomeroy Row, Edmonton, London N.

B. LAPORTE, LTD.—For the year ended June 30, 1918, the gross profit is 15,9781. and the net profit 11,5511. net. A dividend of 32½ per cent. is paid on 23,0001. of ordinary and 4,0001. of deferred shares.

4,000% of deferred shares.

KEMP & Co., LTD., BOMBAY.—The report for the year ended March 31, 1918, states that the balance of profit-and-loss, including Rs. 3,484-7.11 carried forward, amounts to Rs. 77,908, of which the directors have written off for depreciation Rs. 12,990, leaving a balance of Rs. 64,917, which they recommend to be disposed of as follows: Dividend of 10 per cent. or Rs. 20 per share, Rs. 40,000; reserve funds, Rs. 10,000; equalisation of dividend fund, Rs. 5,000; carry forward, Rs. 9,917-7-8; total, Rs. 64,917-7-8. Two of the directors, Lieut-Colonel M. P. Kharegat and Mr. J. Fraser, retire from office by rotation but are eligible for re-election. The Hon. Mr. Phiroze C. Sethna was appointed by the board to fill the vacaney ereated by the resignation of Mr. T. T. Wright.

Trade-marks Applied for.

The figures in parentheses refer to the classes in which the marks are grouped, for a list of which, with particulars as to registration, see "The Chemist and D uggist Diary," 1917, p. 220.

(From "The Trade-marks Journal," September 4, 1918.)

(From "The Trade-marks Journal," September 4, 1918.)

"Kramyzarine Brand a Pharmaceutical Product"; for a pharmaceutical product (3). By Anglo-French Drug Co., Ltd., Gamage Buildings, Holborn, E.C. 1. 384,144.

"Lolin Brand Medicated Face Cream"; for all goods (3). "Lindol"; for all goods (47). By A. Carreras, 207 King Street, Hammersmith, W. 6. 384/162/662.

Monogram of letters "W Y"; for surgical instruments, etc. (11). By Southall Bros. & Barclay, Ltd., 19-21 Lower Priory, Birmingham, 384,124.

"Del Monte Brand" on label device; for food substances (42). By A. W. Latham & Co., 17 Philpot Lane, E.C. 3. 384,072. (Associated.)

By A. W. Latham & Co., 17 Philpot Lane, E.C. 3. 384,072. (Associated.)

"Lusnut"; for food substances (42). By De Bruyn, Ltd., 20 Eastcheap, E.C. 3. 384,205. (Associated.)

"Lusnut"; for all goods (47). By O. M'Cardell & Co., Rodney Street Works, Oldham Road, Manchester. 384,350.

"GLIM"; for all goods (48) and for polishes, etc. (50). By T. Hedley & Co., Ltd., City Koad, Newcastle-on-Tyne. 383,378/9. (Associated.)

"MYSTAINS"; for all goods (48). By Société Anonyme des Parfums d'Arys, 107 Boulevard de la Mission Marchand, Courbevoie, France. 383,342.

"YASHMAK"; for perfumery, etc. (48). By Vinolia Co., Ltd., 37/38 Upper Thames Street, E.C. 4. 383,867.

"Eau Anglatina"; for perfumery, etc. (48). By F. D. Rowland, 5 St. George's Avenue, Aldermanbury, E.C. 2. 384,220.

Picture of honse race, "Fascination"; for perfumery, etc. (48). By J. Margerison & Co., Leighton Street, Preston. 384,432/487.

INDIAN MAGNESIUM CHLORIDE.—The Government of Bombay is undertaking the exploitation of the bitterns from salt manufacture in the Runn of Cutch for the manufacture of magnesium ehloride and bromine. The existing contract at Kharagoda (a sale factory on the Little Runn) has

been eancelled.

German Chemical Activities.—The Merck'sehe Guano-und Phosphatwerke have acquired the chemical-works of Schönebeek on the Elbe, a limited liability company with a capital of 1,850,000m American capital was associated with this undertaking until the outbreak of war.—The Actien-Gesellschaft, Berlin-Treptow, the Farbenfabriken v. F. Bayer, in Leverskusen, and the Badische Anilin Fabrik, Mannheim-Ludwigshafen, have placed new shares on the market.—The Chemische Fabrik Helfenburg A.-G. (for-merly Eugen Dieterich) propose to erect a factory at Copitz, near Pirna. Copitz, near Pirna.

Trade Notes.

STOCKTAKING.--Thomas Tyrer & Co., Ltd., Stirlin Chemical Works, Stratford, London, E. 15, will be close for stocktaking during the week commencing September 2:

FOOD-CONTAINERS.—Eeles, Walker & Co., Crescent, Bin mingham, are manufacturers of all varieties of cylindrica mailing cases, food-containers, and packing-boxes in care board and tin.

ALTESIA TOILET-PREPARATIONS .- Creme Altesia and Altesi skin-food are two toilet-preparations made by William Toc good, Ltd., 77 Southwark Street, London, S.E. 1. Par ticulars are given in the company's advertisement.

Seed-dressings.—Tominson & Hayward, Ltd., manufacturing ehemists, Lincoln, are able to supply promptly their usual seed-dressings, but in view of transport and other difficulties they request that chemists will favour them with their orders as early as possible.

HAZELINE-SNOW IMITATION.—An impudent case of a attempt to pirate the copyright of the labels and package of Hazeline Snow is referred to in the advertisement of Burroughs Wellcome & Co. The imitation was put on the Chinese market by a Japanese company.

CREMORS.—Ayrton, Saunders & Co., Ltd., 34 Hanover Street, Liverpool, ask us to point out that the series of Cremors made with a basis of non-edible fats are the most suitable for the purpose, and have not been replaced by any semi-official suggestions made recently.

NETTLE-FIBRE INDUSTY.—The Nettle and Ramie Fibre Co., 76 Oldhall Street, Liverpool, has been formed for establishing the nettle-fibre industry abroad. Inquiries regarding the cultivation of nettles in this country should be addressed to the London Chemical Works, Scotts Road, Southall.

MILK OF MAGNESIA.—The Chas. H. Phillips Chemical Co., 14 Henrietta Street, Covent Garden, London, W.C. 2, are temporarily unable to fill orders for milk of magnesia and phospho-muriate of quinine owing to congestion of shipping, from the United States. The company hope to be able to supply within a few weeks.

STANDARD RETAIL-PRICE LIST.—Mr. Chas. Philip, pharmaeist, 23 High Street, Herne Bay, has sent us the September issue of his standard retail-price list of drugs, surgical dressings, etc., usually sold in chemists' shops. The list is published monthly, and sold at 1s. 3d., post free.

GIGNOUX FRERES & CE., Decines, near Lyons, France, have

rurchased the Etablissements J. Bertrand, Lyons, and have changed the style of their firm to "Gignoux Frères & Barbezat." The Etablissements J. Bertrand is one of the largest firms of growers, exporters, and importers of vegetable drugs in France, and the firm, whose agent in London is Mr. R. Ansay, 44 Wilson Street, Finsbury, E.C. 2, have now exceptional facilities for supplying the British market with French drugs, including gentian, of which stocks are kept in London.

CHRISTMAS AND NEW YEAR CARDS.—The grip in the morning. air reminds us that autumn is here portending the winter, and a selection of the Christmas and New Year specialities of Raphael Tuck & Sons, Ltd., fine-art publishers, Moor-fields, London, E.C., which we received this week indicates that orders should now be placed for these goods. The variety and design of the greeting-cards are really wonderful; how they are maintained in these times we do not know. The Royal cards are reproduced for use by the public. The King's Christmas card has on the front a coloured representation of Lieut. General Sir Stanley Maude's entry into Bagdad, and the Prince of Wales's choice is a varieties of Prince Palmers. Maude's entry into Bagdad, and the Prinee of Wales's choice is a picture of Prince Edward, son of King Henry III. in Palestine. The Queen and Queen Alexandra's cards are also most appropriate. It is difficult to particularise in regard to the other numerous designs, they comprise many series, and most of them with a particular charm. There are cards selling at from 7s. 6d. down to 1d. The "Pot Pourri" series is perfumed, and other varieties are handpainted or coloured. The Calendar Christmas cards are a practical novelty, as the calendar ensures the preservation of the card. The Auto Stationery is a new series, with beautiful colour designs and artistic greetings on the inner page. Christmas posteards are also issued, and are favoured page. Christmas posteards are also issued, and are favoured by many as a simple method of remembering one's friends at Christmas. The calendars are in great variety and all are well done, the oilettes on the "Browning" and "James Russell Lowell" calendars being specially beautiful. A "National Service" catalogue has been issued which should be consulted by those who order, but the company undertaken the contract of the company undertaken the contract of takes the selection for overseas customers who cannot delay orders until the catalogues reach them.

Births.

Hampshire.—At the Nursing Home, 24 Devonshire Street, ondon, W. 1, on September 7, the wife of C. H. Hampsire, B.Sc., F.I.C., Ph.C., pharmacist to University College cospital, W.C. 1, of a daughter.

Smyth.—At Rusthall, Tunbridge Wells, on September 4, we wife of Sydney Smyth, chemist and druggist, of a suchtre.

aughter.

Marriages.

WHITTAKER-WORRALL.-On September 4, Arthur Whit-ker, manufacturing chemist, Newton Heath, Manchester, Elizabeth Worrall, M.Sc.

Golden Wedding.

SIMPSON-MCKENLEY.—At the United Presbyterian Church, layport Street, Alnwick, on September 1, 1868, George impson, chemist and druggist, to Jane, daughter of David IcKenley.

Deaths.

Brown.—At the Hampstead Hospital, London, N.W., on ugust 9, Mr.. Alexander Brown, chemist and druggist, 1 Leinster Terrace, Lancaster Gate, W. 2, aged fifty-four. Ir. Brown, who was a native of Banfishire, qualified in 199.

Pearson.—At Boston, on September 2, suddenly, Mr. corge Pearson, chemist and druggist, aged eighty-nine. Then a young man Mr. Pearson took a business in High treet, but relinquished it on becoming the proprietor of a hotel. He subsequently re-established himself in pharacy in Red Lion Street, and continued in his shop till the actual day of his death. Mr. Pearson was the oldest radesman in Boston, and enjoyed a great reputation locally is a chemist. He leaves five sons and two daughters. The s a chemist. He leaves five sons and two daughters. meral took place on September 5.

SMITH.—At Abbey Mill Farm, Knaresborough, on September 1, Mr. James Smith, 21 St. Paul's Square, York, ged sixty-two. Mr. Smith was for upwards of thirty years representative of Hirst, Brooke & Hirst, Ltd., manufacturing chemists, Leeds; he was also well known in Masonic roles in the North of England. He leaves a widow.

Died on Service.

CROFTS.—Second-Lieutenant Charles Howard Crofts, Royal CROFTS.—Second-Lieutenant Charles Howard Crofts, Royal ancaster Regiment, attached to K.O.Y.L.I., was killed in ction on July 20. Second-Lieutenant Crofts, who was the on of Councillor W. Francis Crofts, The Foley, Fenton, taffs, served his apprenticeship in pharmacy with Mr. W. Sant, chemist and druggist, Longton. He passed he Qualifying examination in 1913, and on the outbreak f war was beginning the study of medicine. After a short xperience as pharmacist to an American Women's War Iospital, he enlisted in the ranks of the Devonshire Regiment. He received his commission in August 1917, and at He received his commission in August 1917, and at nce went out to the Front. He leaves a widow, who is the iece of Mr. Shortt, Secretary of State for Ireland. His clonel writes: "He was a very brave and fearless officer, and will be very hard to replace in the battalion."

DAVY.—Private Percy Raymond Davy, Machine Gun Jorps, died in France, on August 31, of wounds, aged nine-cen. Private Davy, who was the only surviving son of Ir. Percy Davy, chemist and druggist, Rotherham, and grandson of the late Mr. Humphrey Davy, chemist and ruggist, was apprenticed in 1914 to Mr. J. Poole (Snape & on, chemists, Birmingham), and joined the Army on the xpiration of his apprenticeship. He went out to France ast Whitsuntide

ast. Whitsuntide.

FARRINGTON.—Sapper Leonard Farrington has died of vounds received on service. Prior to joining the Forces sapper Farrington was with Peter Spence & Sons, Ltd., anufacturing chemists, Oldham Road, Manchester.

FLETCHER.—Riffeman Frank Fletcher, King's Royal Rifle orps, has been killed on service. Rifleman Fletcher served is apprenticeship in pharmacy with Battle, Son & Maltby, incoln. He enlisted after passing the Qualifying examination in July 1916.

Hotrom.—Sergeant-Dispenser Alfred Leonard Holtom, R.A.M.C., has died in Mesopotamia, of appendicitis, aged wenty-five. Sergeant Holtom, who served his apprentice-hip in pharmacy with Mr. J. T. Bell, chemist and druggist, coventry Road, Birmingham, qualified in January 1916.

MacMillan.—Corporal Charles E. MacMillan has been cilled in action. Prior to joining the Forces in January

1917 Corporal MacMillan had for several years been in charge of the special-formula department of Parke, Davis & Co., Beak Street, London, W. A Scotsman by birth, he graduated as a pharmacist in America, and became an American citizen. There was therefore some difficulty in his enlisting, and the special permission of the Home Office was required. Corporal MacMillan was at one time Secretary of the London Chemists' Assistants' Association, and before the war was conspicuous in the social organisations of Parke, Davis & Co., so that his loss will be felt in many directions by the members of the staff as well as by his personal friends. personal friends.

OAKLAND.—Private Herbert Oakland, East Yorkshire Regiment, was killed in the trenches on August 28 by an enemy shell. Prior to enlistment Private Oakland was an assistant at the Silver Street, Wakefield, branch of Taylors'

Drug Co., Ltd.

SANGSTER.—Lance-Corporal Charles William Sangster was killed in action on August 24, aged twenty. Lance-Corporal Sangster enlisted in the Middlesex Regiment at the age of seventeen, a few months after commencing his apprentice-ship with his father, Mr. Charles Sangster, pharmacist, Slough. Since the beginning of the present year he had

been on active service in France.

Walsh.—Second-Lieutenant Lionel H. Walsh, M.C., London Regiment, died in France of wounds on August 29. Scoond-Lieutenant Walsh, who was the son of Mr. A. Walsh, general manager of Lennon, Ltd., Cape Town, joined the S.A. Medical Corps early in the war, and soon attained the rank of staff-sergeant. In 1916 he was awarded the D.C.M. for gallantry in action at Delville Wood. He was granted a commission, and subsequently won the Military Cross. In civil life he was manager of the Cape Town branch of Lennon, Ltd., in which capacity he manifested the energy and enthusiasm that won him distinction in his military coareer. military oareer.

Personalities.

Mr. George Foster, chemist and druggist, Yorkshire Street, Burnley, has recently been the recipient of many congratulations on his eightieth birthday.

Mr. Herrer W. Colley, chemist and druggist, Grimsby, has been elected Chairman of the Finance and General Purposes Sub-Committee of the Grimsby Insurance Committee.

Mr. R. S. ROWBOTTOM, chemist and druggist, has been appointed bacteriologist at the 17th Stationary Hospital, Bombay, where he has for the past two years been dis-

MISS FREDA M. ARMITAGE, daughter of Mr. Nathaniel N. Armitage, Ph.C., Armley, Leeds (President of the Leeds Chemists' Association), has passed the school certificate examination held under the Joint Matriculation Board of the Northern Universities.

Mr. George Simpson, chemist and druggist, Alnwick, and his wife have received many congratulations on the attainment of their golden wedding. Mr. Simpson served his apprenticeship in the pharmacy of Mr. William Davison, and is the oldest tradesman in the ducal town. After completing his apprenticeship he commenced business in his present shop in Narrowgate. Mr. Simpson has always taken a keen interest in local institutions, and as a Freemason is well known throughout the "North Countrie."

Dr. H. H. Hodgson, M.A., B.Sc., has been appointed head of the department of coal-tar colour chemistry at Huddersfield Technical College. Dr. Hodgson has for the past three years been chief chemist to a firm of chemical manufacturers, and was formerly in charge of the chemical department at the Northern Polytechnic Institute, London. He has been an examiner in chemistry to the University of London and to the Civil Service Commissioners, and is the author of numerous contributions to chemical publications.

Mr. Thomas Cretchley, chemist and druggist, 7 Simmons Street, Blackburn, who died on July 16, has left property of the value of 24,312l. 8s. 7d., with net personalty 11,846l. 18s. 4d. The will is proved by Charles Albert Critchley, Ph.C., son. The testator gives his share of the partnership business of T. A. Critchley & Co., the freehold warehouse in Cardwell Place, and his business of a starchgloss manufacturer, with the stock, plant, etc., to his son Charles Albert; 100l., the use of his residence and furniture, and 200l. a year to his wife; 200l. to his step-daughter Jane Chew; and the residue of the property to his three children, Charles Albert, Walter Clayton, and Annie Grace, the share of his son Charles Albert to be less by 1,700l. than the share of the other two children.

Scientific Progress.

Temperatures under this heading are on the Centigrade scale.

A New Constituent of Peppermint Oil.—Walbaum has isolated a new constituent, phenylacetic ester of hexenol, from Japanese oil of peppermint, having the constitution CH(C_aH_e):CH.CH_a.CH_aOH, and the following are its characters: specific gravity, 0.8508; boiling-point, 156-157°: refractive index, 1.4803. The naturally occurring ester is difficult to purify, but when prepared synthetically in a pure condition it has the following characters: Boiling-point, 299-300°; specific gravity, 1.000; refractive index, 1.4981.

The Alkaloid of Castor Oil.—The last investigation of importance on ricinine, the alkaloid of castor-oil seeds, was that of Maqueme and Philippe, who assigned a somewhat improbable formula to it. Bottcher (Ber., 1918, 51, 673) has now taken up the study of this alkaloid, and assigns to a formula less complicated and more probably correct. The alkaloid is obtained by running the oil from the seeds and then extracting the residue with boiling-water, evaporating the watery extract under reduced pressure, and exhausting the dried powder with alcohol. From 300 kilos of the seeds he obtained about 450 grams of the crude alkaloid. When pure it melts at 200-201°. On hydrolysis with dilute potassium carbonate it yields ricininic acid, melting at 296° to 298°.

Rasmussen atropine and its isomerides may be accurately determined by silico-tungstic acid. The belladonna leaves or extract are treated with ammonia and extracted with ether, the ether extracted with dilute hydrochloric acid, and excess of silico-tungstic acid added. After standing for about eight hours the precipitate is collected on a Gooch crucible, washed with 1-per-cent. hydrochloric acid, ignited, and weighed. The weight of the inorganic residue multiplied by 0.4067 gives the weight of atropine, to which a correction of 0.0054 for every 100 c.c. of solution and washings must be added. The results are in close agreement with the calculation.

Radium Luminous Compound.—The report on the Physics Department of the National Physics Laboratory for the year 1916-17 states that the work on radium luminous compound is now carried out for both Services, and over ten thousand luminous dials of various kinds have been inspected and measured for luminosity. The investigation of the behaviour of the compound- itself and its decay led to very useful results. Many samples of radium compound have been kept under observation, and the rate of decay of luminosity has been determined over a period of about fifteen months. It has been found that the luminosity does not decay in accordance with a simple logarithmic law, but that there is a tendency for the decay coefficient to decrease with time, so that for any given sample the luminosity curve will become asymptotic with time. Further, it is found that whatever the initial radium-content (above about 0.1 mg. per gram) the final limiting luminosity, assuming the same zinc sulphide, is virtually the same for all samples. This point has an important bearing on the quality of luminous compound to be used for gunsights where the compound is used in powder form unmixed with varnish. The rate of luminosity decay during the first few months of the life of the 0.4 mg. compound is between 4 and 5 per cent. per week, and in six months the duminosity is down to half its initial value. When articles are liable to lie in store for several months it is obviously useless to employ so high a radium-content when after twelve months there will be no appreciable difference in luminosity between 0.4 mg. and 0.2 mg. compounds of equal age. For this purpose, therefore, it is merely a waste of money to use compounds with large radium-content when the compound is unmixed with varnish. A great saving of money and no sacrifice of efficiency result from the adoption of the lower standard. The National Physical Laboratory luminosity standard for 0.4 mg. luminous compound is 0.03 equivalent foot candles—viz., four times that of the compounds contai

West Indian Oil of Bay.

The last issue of the "Kew Bulletin" contains an interesting account of West Indian bay oil and bay rum, in the course of which it is stated that bay oil is the product of the leaves of the "West Indian bay-tree," Pimenta acris, Kostel., which is known locally by several other names, and the oil is used in the manufacture of bay rum. The industry has suffered much from the admixture of the leaves of two forms of Pimenta acris known as "Bois d'Inde Citronelle" and "Bois d'Inde Anise," which are so similar as to be separated with difficulty. "Bois d'Inde so similar across de l'inde across controlle "across de l'inde across controlle "across de l'inde across de l' leaves of two forms of Pimenta aeris known as "Bois d'Inde Citronelle" and "Bois d'Inde Anise," which are so similar as to be separated with difficulty. "Bois d'Inde Citronelle" is known as Pimenta aeris var. citrifolia (P. citrifolia, Kostel, Myrtus citrifolia, Poir.); the oil has the taste and odour of lemon, owing to the presence of "citral," which reduces the value of the true bay oil if mixed therewith. "Bois d'Inde Anise" does not appear to have been distinguished botanically, but its oil also is an equally undesirable product which reduces the value of bay oil. The true economic plant is known as "Bois d'Inde," or bay-rum tree. The frequent appearance of the leaves of these two varieties amongst produce sold as "Bois d'Inde" leaves is not only a matter of considerable inconvenience and possibly loss to distillers of bay oil, but tends to give a bad name to the Dominica samples of bay-oil leaves submitted to distillers. Leaves and flowering branches of all three forms have been submitted to Kew by Mr. J. Jones, curator, Botanic Garden, Dominica, with a view to the detection of any botanical characters by which they can be distinguished, but the principal difference detected is in the fragrance of the bruised leaves, those of the "Bois d'Inde Citronelle" being citronsequed while the chars are simuly accounted. botanical characters by which they can be distinguished, but the principal difference detected is in the fragrance of the bruised leaves, those of the "Bois d'Inde Citronelle" being citron-scented, while the others are simply aromatic, a character difficult to utilise in collecting leaves from wild sources, and of little practical value as a means of subsequently detecting adulteration. Moreover, it failed in separating the "Bois d'Inde Anise," and it is not yet clear why this particular variety fails to reach the desired standard as regards its essential oil. The specimens have been subjected to botanical comparison, and to more detailed examination in the laboratory, but no conspicuous differences have been observed. At present the leaves are collected from the wild plants in several islands, including Dominica, Porto Rico, Montserrat, St. John's, the Virgin Islands, and other localities. This case of varietal forms of Pimenta acris affords a parallel to those of camphor (Cinnamomum Camphora) and chicle gum (Achras Sapota). Of both these plants more than one form is known to exist, and the present instance affords yet another example of the absolute necessity of making sure of the value of any particular strain or physiological form of an economic plant before establishing plantations on an extensive scale. Both the normal Pimenta acris and its varieties exist in great numbers on poor soils near the coast. It is interesting to note that when about thirty-five years acro, the Both the normal Pimenta acres and its varieties exist in great numbers on poor soils near the coast. It is interesting to note that when, about thirty-five years ago, the lemon-scented variety, "Bois d'Inde Citronelle," was brought to the knowledge of the Kew authorities the plant was propagated and distributed between 1885 and 1889 to Jamaica, Demerara, Lagos, Queensland, Fiji, Ceylon, Java, and Singapore. and Singapore.

Information Department.

INFORMATION WANTED.

Postal or telephone information with respect to makers or firsthand suppliers of the undermentioned articles will be appreciated.

171/31. "Warwick" baudage 171/35. Van Camps' sterilised evaporated milk 172/22. Karmoids 172/23. Glass pill-tubes, supply 172/24. Novaspirin (chemical equivalent), makers 157/38. "International" stock

157/38. "International" stock food 170/24. Talcum powder tins, supplies

1561/13. "Imperial" dental cream ("T.J.C.," London) 175/21. Xanthodrol 175/22. Grout creme de lys 172/43. "Corona" ink cradicators 164/57. "Gower's green pills 175/39. "Monarch" safetyrazor blades 164/67. "Clymax" toilet powder

INFORMATION SUPPLIED.

Inquiries regarding the following articles have been answered. The information as to supply will be given to others who send a stamped, addressed envelope to the Information Department, THE CHEMIST AND DETEGRIST. 42 Cannon Street, London, E.O. 4:

Acetic anhydride, 172/28
"Ajax" electric belts, 170/9
Aniline dyes, 167/18
Briscall's olive oil, 165/66
Carlton's horse powders, 167/5
Chemists' overalls, 174/37 and 162/25

Composite ruby, 160/5 Cream of tartar substitute, 170/69 "Dalio" oil, 165/67 Dorin's powder, 167/14 Esauofele (Bisleri), 172/32 Fluorescein, 166/25

Observations and Reflections.

By Xrayser II.

The State Endowment

of pharmaceutical research under the direction of the Pharmaceutical Society-the idea mooted in your last week's leader-is rather startling at first sight, but appears more and more feasible the longer one looks at it. There is, as you say, no more suitable body for such work in existence: the mere fact that the Society stands midway between science and industry-or, rather, has a foot in both camps—gives it a unique advantage, and the further fact that it alone has the special function of education in pharmacy in its hands confirms its claim to State recognition and support as a teacher. Pharmacists will thank you for bringing the subject forward, and will, I trust, urge its consideration upon the Council. But if any practical result is to follow, our School of Pharmacy will need greater financial support than it has yet received from the trade. We ought to be prepared to guarantee a sufficient fund to establish the School on a scale large enough to ensure its success, and to contribute something like an equal sum yearly to any grant Government might give. Such a scheme appeals to every section of the trade, wholesale or retail, and its realisation would at once supply the national need and secure our position in the medical service of the country.

The Newport Organisation Scheme

looks well on paper, but I am afraid it is, like most "paper constitutions," too neatly constructed, too nicely adjusted, to work. A simpler scheme that would leave more freedom of action to the machine would attract me more. I do not like large constituencies and triple representation: one man one vote, and one constituency one representative, is the democratic ideal, and to that I incline. It is the simplest, the most direct, and, more important than everything else, it keeps the closest personal contact between voter and representative, and yet leaves the largest scope for individual talent in the latter. As for the interior organisation of the Council, the most crying need is a permanent Executive Committee for the general direction of affairs; there should be no differentiation of function in the Executive itself; but Consultative Committees on the model proposed in the Newport resolution are certainly desirable, though I do not like the arbitrary mode of composition designed for them. Freedom, elasticity, are what we should aim at; adaptability to emergencies as they arise, and no hide-bound bureaucracy. And I would make it impossible for any decisive step in matters vital to our interests to be taken without a direct reference to the opinion of the trade.

Chemistry,

its immense and ever-growing importance, and the splendid possibilities of the career it offers its votaries, deservedly occupied a large part of your recent Educa-tional Number. What you said there receives striking illustration in last week's issue of an official paper dealing, not with science as such, but with economic subjects generally as affecting the world at large and our own country in particular. This publication consists entirely of items of information culled from foreign newspapers, and therefore of first-hand testimony to existing facts. I find in the number referred to the following among other items definitely classed as "chemical": a long article from a German paper on improvements in Willstaeter's method of distilling spirit from wood, the results of which are said to be of great promise; an account from a South American paper of the effect of the production of atmospheric nitrogen on the nitrate industry in Chile; a paragraph from a Dutch paper on a new process for producing benzol; another on the same subject from a Danish paper; an item from a Swiss paper on new uses for cyanamide; several from Norwegian and Swedish papers on such subjects as sulphite coal, the distillation of oil from wood. the chemical utilisation of seaweed, the refinement of resin, and new substitutes for shellac, etc. In addition to these definitely "chemical" items there are numberless others with which chemistry is more or less directly concerned, on such subjects as synthetic rubber, metals and minerals, oils, soap, fuel, alcohol, paper, and substitutes for all sorts of articles. It is no exaggeration to say that chemical science has to do with two-thirds of the matters dealt with in the paper.

Great as is the Anomaly

of unskilled labour earning 1s. 6d. an hour, or more, while such work as that of a chemist's assistant is paid for at the rate of 3l. a week, or thereabouts, it is not greater than that of an employer whose net income from his business is some 300l. a year paying his assistant the salary now demanded by some of our qualified men. I do not say that five or even six pounds a week is excessive in view of what is required of them, but it is more than most chemists can afford to pay. The solution of the difficulty-and the only solution-is better remuneration for ourselves : we must raise our prices; and we cannot begin this upward movement better than by demanding better terms for our Insurance work. It is monstrous that while all other classes of workers are receiving higher pay to meet the increased cost of living, we are receiving less than was originally allowed us. Is anything being done with a view to obtaining better terms next year? If not, why not? Our case is not to be met by any "war allowance"; should the war cease to-morrow the cost of living will for years be 50 per cent. above that of pre-war times, and labour will never again be obtainable on anything like the old terms.

The Question of Equal Work

for equal pay will, says Mr. B. S. Rowntree, be of less importance after the war than that of a fixed minimum wage for both male and female workers, partly because equal work from the two sexes is only possible in comparatively few employments, and partly because of the complexity of conditions upon which wages for all kinds of work depend. Where equal work is possible, equal pay is both equitable and expedient, and it is most largely possible in skilled trades (of which ours may, I suppose, be considered one) in which great physical endurance is not required. But even here a minimum wage is of the first importance. The two factors on which wages depend are human needs and the law of supply and demand. The former is the more constant of the two, and it must determine the limit below which wages must not be allowed to sink. And on this basis, taken alone, women cannot reasonably demand equality of pay with men, since they are less likely to have households dependent upon them. Still, in cases in which they submit to exactly the same conditions and do exactly the same work as men they must have equal pay, or they will depress the scale of wages throughout, and reduce those of men below the minimum requisite for the supply of human needs.

The Blackberry,

or rather, the bramble, since I speak not of the berry alone, but of the whole plant, had once a considerable popular reputation both as a medicine and as a charm for various disorders. The flowers and fruit were in ancient times used to remedy venomous bites; the young shoots, eaten as a salad, were thought—though Gerard cautiously suggests the addition of a little alum—to fasten loose teeth. Gerard, and the other old herbalists, however, regard the bramble as a valuable astringent, whether eaten or applied: its leaves "heal the eies that hang out," and are a most useful application for piles; its fruit stops looseness of the bowels, but (says Pliny) provokes urine, and is good for the stone. The leaves are said to be still in use in England as a remedy for burns and scalds; formerly their operation was helped by a spoken charm. Creeping under a bramble-bush was itself a charm against rheumatism, boils, blackheads, etc.

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Editorial Articles.

Hostes Humani Generis.

LORD WALSINGHAM, the distinguished naturalist, in a letter to "Nature," raises the question as to the treat-ment which should be accorded to Germans in future when they attend International Congresses. His Lordship gives an instance of a certain learned professor with whom he was on terms of friendship and who had been honoured by the Universities of Liverpool and Dublin, but turned out eventually to be a common German spy. He adds:

If an individual in any community commits murder or robbery, or is even plausibly suspected of swindling or cheating at cards, the unavoidable and universally recognised penalty is that no man with a grain of self-respect will ever again associate with him, shake his hand, or converse with him in friendship. Let us trust that for the next twenty years at least all Germans will be relegated to the category of persons with whom honest men will decline to have any dealings.

This feeling displayed by Lord Websick with the latest the category of persons with whom honest men will decline to have any dealings.

This feeling displayed by Lord Walsingham is shared by all who realise that Germans are the enemies of the human race and must be treated as such until they have purged themselves of their offences against civilisation. It is a standing disgrace to the Pharmaceutical Society that on the lists of honorary and corresponding members are retained the names of thirteen Germans and Austrians. The following are the names:

Honorary Members.

Engler, Dr. Adolph, Director of the Royal Botanic Gardens and Museums, Dahlem, Berlin. Elected an honorary member in 1911.

Fischer, Dr. Emil, Professor of Chemistry, Frederick Wilhelm University. Charlottenburg, Berlin. Elected in 1907. He has been removed from the list of foreign members of the Chemical Society.

Froelick, Max, Pharmaceutical Assessor in the Prussian Kultusministerium; Past President of the Deutschen Apotheker-Vereins, Berlin. Elected 1899.

Radlkofer, Ludwig, M.D., Ph.D., Professor of Botany in the University of Munich. Elected 1911.

Schmidt, Ernst, Ph.D., Geheimer Regierungsrath, Professor of Pharmaceutical Chemistry; Director of the Pharmaceutical Chemistry Laboratory, University of Marburg. Elected 1899.

Elected 1899.

Ph.D., Professor of Plant Anatomy and Physiology, and Director of the Botanico-Physiological Institute, Academy of Sciences, Vienna. Elected 1902. Was ten years before that a corresponding member.

Corresponding Members.

Corresponding Members.

Beckurts, Heinrich August, Professor of Pharmaceutical Chemistry in the Technical High School: Geheimer-Medizinalrat, Brunswick. Elected 1904.

Kobert, Eduard Rudolf, M.D., Director der Brehmerschen Lungenheilanstadt, Röstock, Mecklenburg. Elected 1892. Invented a variety of war-bread containing animals' blood. Meyer, Arthur, Ph.D., Professor of Botany, Director of the Botanical Gardens and Pharmaceutical Institute, University of Marburg. Elected 1892.

Moeller, Joseph, M.D., Professor of Pharmacology and Pharmacognosy, University of Vienna. Elected 1892.

Paschkis, Heinrich, M.D., Lecturer on Pharmacology, University of Vienna. Elected 1892.

Schweinfurth, Professor Georg A., Berlin. Elected 1895.

Thoms, Dr. Hermann, Professor of Chemistry, University of Berlin, Steglitz-Dahlem. Elected 1902.

The ordinary member who pays his subscription will be puzzled to know why the names of the Huns and their dupes should be retained on the membership list and printed in the "Calendar." We have raised this question before, and a half-hearted attempt has been made by the Council to deal with the matter, the conclusion arrived at being that there is no power to remove honorary and corresponding members! Now that the Council has been altered in composition and the permanent officials changed, we suggest that another attempt should be made to deal with this scandalous state of affairs. This time the matter should be approached in the spirit that insists upon finding a way to rid the Society of these members of "the blackguard nations." The Charter gives the Pharmaceutical Society the right "to elect honorary and corresponding members . . . who shall have all the privileges thereof except the right of being present at general meetings," and further on power is given to make by-laws for, among other things, detergiven to make by-laws for, among other things, determining "the number, qualifications, and privileges of such persons as they may from time to time deem it proper to admit as honorary or corresponding members." Section II. of the by-laws deals with this matter, the members referred to in the Charter being defined as "such scientific workers as have distinguished themselves in any of the branches of knowledge embraced in the educational objects of the Society." Nothing is said about removing such members, but Sub-Section 2 repeats the Charter paragraph: "The Council shall from time to time determine the number of persons to be honorary members and the number of persons to be corresponding members." This offers a simple process of shedding undesirable people such as alien enemies. There are about thirty-three names in the list of honorary members, There are so that if the Council passed a resolution that there should be only twenty-seven, they could at once purge the list to the extent desired. The same process would purify the list of corresponding members. We understand, however, that the question has been raised as to whether the procedure laid down for the removal of ordinary members and student associates does not apply to the case of honorary and corresponding members. Section XIV. deals with the removal of officers and members, the method being to consider complaints made in writing by other members "that another member has been guilty of any act or conduct which is contrary to or is subversive of the interests of the Society or a violation of its laws and regulations." If the Council considers that a case has been made out, the Secretary is required to write to the

offending member for an explanation, and if that is unsatisfactory, to proceed by resolution to remove his name. In our opinion this method cannot apply to honorary and corresponding members, who are not mentioned at all in the section. Ordinary members are elected by reason of their qualification as chemists and druggists or pharmaceutical chemists, and it is desirable that a way should be provided by which unwanted members can be removed from the membership roll. The Society has complete control of its membership and not infrequently exercises its power. If its powers are not sufficient, the by-laws should be altered at once. The removal of names from the Register of Chemists and Druggists is a different matter altogether. It is only the Privy Council that can direct the erasure of names from the Register, this power being given by Section XXVI. of the Pharmacy Act, 1868. The precedent of the Chemical Society may be useful in taking up the subject of enemy honorary and corresponding members. In the case of the Chemical Society the Charter gives power to admit "honorary and foreign members," the by-laws referring to these simply as "foreign members" who are not required to contribute to the funds of the Society. In 1916 the whole of the "foreign members" who were alien enemies were removed under the provisions of bylaw XII., which requires a resolution of Council to that effect to be read at three successive ordinary meetings, and at the third meeting the proposition is to be balloted for, a majority of three-fourths of the members present being required to render the motion effective. It will be seen that the procedure is somewhat more complicated than that which the Pharmaceutical Society could carry out. Other Societies have removed enemy members, and the Royal Society is taking steps in this direction. The members of the Pharmaceutical Society should note also that for years the Germans and Austrians mentioned above have been receiving a free copy of the Society's "Journal" at the expense of the subscribing members. These copies have, we hope, been suspended during the war. The "Calendar" is not to be published next year, and we hope that when it appears again its pages will be free of the names of honorary and corresponding members who are hostes humani generis.

Indian Drugs.

CONSIDERABLE attention at the present time is being paid to the development of economic resources in India, and, as we have indicated on various occasions, these efforts have been attended with more or less success. The country has been forced to take energetic measures because of the failing supplies from European countries, and the result of this development will certainly be that in future more attention will be paid to the possibility of improving the indigenous products of India. There should, for instance, be a splendid field for well-organised businesses having for their object the development of trade in indigenous drugs, and we understand that several large commercial firms are taking steps to put the trade on a less haphazard basis than it was prior to the war. The Indian Government has also recognised the necessity for the encouragement of the utilisation and manufacture of indigenous raw materials in India, instead of allowing them to be exported to other countries for manufacture. Before the war the bulk of them went to Germany for Before the war the bulk of which is purpose, and after the war there will be a wide field for expansion for soundly organised firms. There is a this purpose, and after the war there will be a wide near for expansion for soundly organised firms. There is a large demand for Indian drugs, but the supplies are inadequate. Some time ago Major A. T. Gage. Director-General of Botanical Survey of India, said that, given the necessary staff and equipment, it should be quite feasible to undertake the systematic cultivation of drugs in India. Practically all drug-yielding plants could be subtirated and improved in quality. The Government of cultivated and improved in quality. The Government of India some time ago proposed to cultivate Indian drugs at Nasik; in the Madras Presidency the subject has been frequently discussed, and a number of experiments have been made. Sir Leonard Rogers, in an address to the Royal Asiatic Society of Bengal, two years ago, emphasised the neglect of scientific research and manufacture

of Indian drugs, and expressed his belief in the success of a systematised attempt to place the industry on a business footing. He pointed out that more than half of the medicines in Western materia medica are obtained from India. The Government of India, however, has found that its efforts have met with comparatively little response from the public, and has naturally not been enthusiastic in a matter which was treated indifferently by those with capital at their disposal for the development of trade. Now that the exigencies of the times are demanding attention to the subject it may be possible to arouse a deeper sympathy and to enlist the interest of the Indian people. Certain drugs are now cultivated fairly extensively and with success. Bella-donna grows well in the Western Himalayas from Simia to Kashmere. Digitalis is quite acclimatised in the Nilgiris, growing there without attention and supplying the entire demands of the Madras Government. Henbane is a native of the temperate Himalayas from 8,000 to 11,000 feet, and has, since its introduction into the Botanic Gardens, Saharanpur, in 1840, been cultivated in sufficient quantities to meet the demands. Ipecacuanha has been successfully grown in several provinces, and the production could be greatly increased. Jalap grows extensively on the Nilgiris, but we still depend on Mexico for our supplies. Cinchona ought to be cultivated on a much more extensive scale, so as to make the British Empire less dependent on outside sources of supply, Liquorice-root from India has appeared on the London market since the war began, and as the glycyrrhizin content is high, fair quantities have been sold. These are a few instances of successful cultivation in India of well-known drugs, and doubtless they could easily be multiplied. In the past there has been no regular cultivation of indigenous drugs, and those collected are gathered without any matrix to the properties. without any relation to the proper time or season. Hence it is necessary that an attempt should be made to introduce some kind of system whereby the collectors may be supervised, as the variation in the quality of wild-grown drugs is occasionally a serious drawback in finding a profitable market. In addition to adequate supervision in the cultivation, it is necessary that a survey of the drugs which are now to be found growing wild in the forests should be made, after which the Government will be able to take steps to preserve areas for drug-cultivation. It must not be expected, however, that the Government will work unaided, as the private individual or company must be looked to for the flotation of schemes based on the information supplied by the Government.

Adult Education Committee's Interim Report.

The recently issued interim Report of the Committee on Adult Education appointed under the auspices of the Ministry of Reconstruction contains abundant material for thought. With the dictum laid down, in one of its opening sentences, that "democracy can only be operative through an educated community," there will probably be general—if qualified—agreement. The portions of the Report most germane to the conditions of life in the drug-trade are those dealing with the length of the working week, security of livelihood, and holidays. Taking these in order, the Committee recommends that there should be a general shortening by law of the normal working day, which "should not be more than eight hours"; that "steps should be taken to guarantee to the worker some reasonable security of livelihood" by preventing or minimising fluctuations in the volume of production; and that "wage-earners should be entitled by law to an annual holiday, with pay." The last-named reform has, the Committee understands, been inaugurated in the chemical industry, the length of the holiday being a week. Industrial and social conditions are separately examined in the Report in considerable detail, and on such topics as "monotonous" work a considerable volume of interesting personal experiences has been collected. The general tendency of the Report is to emphasise the relation between work and such questions as those of housing and sanitation. Its humanitarian spirit may be sufficiently judged by such a dictum as the following: "There can

be no doubt that excessive labour regularly pursued degrades those who follow it." In another passage the Committee declares: "We say frankly that if the desire for maximum output cannot be realised without robbing the human being of his opportunities for full participation in the organised life of society and its educational facilities, we would unhesitatingly give preference to the satisfaction of the claims of the human being."

Pharmacists in the Army.

Referring to the abortive attempts which have been made from time to time to obtain the recognition of pharmacists in the Army, we remarked a few months ago (C. & D., March 30, p. 42) that there is obviously something more behind the determined opposition to reform than is generally admitted. We said that everything seems to point to the hereditary jealousy on the part of the medical profession. The doctor, military or civilian, must by hook or by crook keep "top dog," and Army and civilian doctors have always made a point of depreciating the services of qualified pharmacists and belittling the scientific value of properly trained dispensers. A confirmation of this surmise comes from Canada, where the "Canadian Pharmaceutical Journal" confesses that "the doctors are opposed and being in control have so far defeated the movement," the movement being for the recognition of pharmacists in the Army. Some time ago it looked as though some improvement in the status of pharmacists would be made in this country, but so far no official announcement has been made. How much longer will pharmacy have to wait?

Aloes as a Sedative.

We were not previously aware that aloes is a local sedative. Dr. F. William Cock, in the "British Medical Journal," refers to aloes as a local sedative as "shown by the formula for friar's balsam, in which aloes is a considerable ingredient." We had always thought that the aloes in tinct. benzoini co. was there in its capacity as a stomachic. A drachm dose of the tincture contains a grain of aloes, much less than the amount required as a purgative. Friar's balsam is certainly used as a vulnerary, but we imagine it is the gum resins that act as hæmostatics. Dr. Cock makes the suggestion that a saturated solution of aloes in tincture of tolu is a pleasanter form of application for harvest-bug bites. should be kept in a stoppered bottle and shaken before use. By applying the stopper to each bite once or twice before scratching the relief is great. It is also suggested that tincture of tolu be used in bronchitis-kettles in place of compound tincture of benzoin, where the disagreeable odour of the aloes persists after the aromatic part of the tincture has volatilised.

Lighting and Heating Reduction.

The problems of how to reduce lighting and heating so as to economise coal are puzzling many chemists. The various lighting Orders have effected a considerable reduction in the amount of lighting used in pharmacies, although as a rule the cost is more owing to the soaring prices of the electric-light and gas companies. Now chemists, in common with other people, are asked in the National interests to reduce still further the amount of coal or its equivalent which they have been using. Local Fuel Committees are working out the quantities of coal, gas, and electric light which may be used, and some of our readers are asking what they can do where the ration seems inadequate. It may be that the winter will be mild this year and that it will not be difficult to cut down heating, but the only way of reducing lighting appears to be to close earlier. This cannot be managed in the case of chemists who transact the bulk of their business—the supply of medicine—in the evening. The Early Closing Association finds that many towns are in favour of six-o'clock closing. If the movement is at all general and results in a fresh Early Closing Order under the Defence of the Realm Act, chemists would probably be able to fall into line. There are, however, the difficulties that doctors' consultation-hours are in the evening and the fact that workers cannot as a rule visit medical men until after working-hours.

Medical Gleanings.

Treatment of Scabies.

DR. R. HOGARTH CLAY (Plymcuth) writes to the "British Medical Journal" (2963, p. 542): "I have never failed to cure scabies by using a bath containing 3 oz. of potassium sulphuret in as much water as will entirely cover the patient, who should remain immersed up to his neck, with hands and arms under water, for twenty minutes. The bath should be of comfortable warmth, and of course all underclothing must be disinfected."

Psoriasis Treatment.

Dr. Louis Bory ("Lancet," excili, p. 130) for the treatment of psoriasis employs injections into the muscles of the buttock of the following solution:

Precipitated sulphur 20.0 Eucalyptol Sesame oil

Dissolve the sulphur in the oil and add the eucalyptol. Each injection consists of 5 c.c. of the Aquid; often only a single injection is needed.

Dysentery Treatment.

Dr. L. W. Seymour, in the "British Medical Journal" (2952, p. 115), refers to a treatment for dysentery which he employed with success twenty-five years ago in the Persian Gulf and India. The prescription for the average case is as follows:

Acid. carbol. liq. (B.P.) ... Quininæ sulph. Acid. sulph. dil. gr. xxxij. ... 5ij. ... 5j. ... 3viij. Glycerini Aq. ad

Half an ounce thrice a day in water, or every four hours, for a time, if the case be severe.

for a time, if the case be severe.

Dr. Seymour adds that the mixture is as clear as water if made up as follows: Pour the glycerin into the bottle, then half-fill the bottle with water; add the carbolic acid, and shake well together. Dissolve separately the quinine with the dilute sulphuric acid in about 2 oz. of water, and add this to the previous solution in the bottle; shake again, and fill up the bottle. Equally satisfactory results have been obtained in cases of scpticæmia, crysipelas, puerperal fever, and carbuncles. The way in which wounds heal when the patient is on an internal course of this combination is very remarkable.

Treatment of Trench Fever.

Treatment of Trench Fever.

A Paper in "The Lancet" (I., 1918, 399), by Drs. C. E. Sundell and A. T. Nankivell, summarises the treatment of trench fever as follows: "It may be said at once that this is eminently unsatisfactory. No drug has yet been found which will cut short the disease, and symptomatic treatment is hardly less unsuccessful, being limited to the use of local anodynes, and analgesics internally. Sodium salicylate is of no value whatever; aspirin in 10-gr. powders at night gives some relief; a combination of aspirin and phenacetin sometimes acts better than either drug alone. Bromides, butyl chloral, and tincture of gelsemium have all been tricd, and in our hands, at any rate, have had no success. Urotropine finds favour with some, but we have tried it in vain. As local anodynes we have tried cold compresses with some As local anodynes we have tried cold compresses with some success. Hurst strongly recommends compresses with some a saturated solution of magnesium sulphate, but in our opinion cold water is equally efficacious in some cases and equally inefficacious in others. Hot applications are usually badly borne, but we have seen relief follow the use of hot stupes sprinkled with mxx. of tr. belladonnæ. During the less acute stages rubbing the shins with any simple ointment containing menthol gr. xv. to the ounce has sometimes given relief. Arsenic is useless in the early stages, helpful in the late."

The Starving Treatment of Diabetes.

Dr. P. J. Cammidge, in a lecture before the Harveian Society ("British Medical Journal," 2938, 503), refers to fifty-four cases of diabetes mellitus treated by Allen's method of fasting the patient. It is not the best, the author remarks, for all forms of glycosuria, but it marks a great advance in the available methods, and gives results that can be obtained by no other means in many instances. Every case cannot be expected to react to starvation in the same way, the determining factors being the amount of the same way, the determining factors being the amount of stored fat, the power to utilise the carbohydrate stored in the form of glycogen, and the extent to which sugar of protein origin can be made use of. Consequently, three practical deductions may be drawn: (1) There is more danger

of serious acidosis during the starvation of fat than thin diabetics; (2) when acidosis is present the patient should be prepared for starvation by a fat-free, protein-poor, diet for several days; (3) an initial increase in the acidosis diet for several days; (3) an initial increase in the acidosis is to be expected in most cases, but should not put a stop to the treatment unless it assumes threatening proportions. When this occurs the fast should be terminated for the time being and the treatment directed to the acidosis. A restricted diet and alkaline therapy for a few days will generally serve to control the condition, when a further fast will usually result in improvement in carbohydrate metabolism without increasing the acidosis. During the fasting period as much exercise as practicable should be tast will usually result in improvement in carbohydrate metabolism without increasing the acidosis. During the fasting period as much exercise as practicable should be taken, as it shortens the duration of the fast. After feeding is commenced the exercise should be continued, short periods of vigorous exercise after meals being preferable to long walks. Excessive fatigue should be avoided. Mental occupation is also most desirable, and patients should be encouraged to continue, or resume, their ordinary work if possible.

Practical Notes and Formulas.

Non-inflammable Benzine.

THE USE OF CARBON TETRACHLORIDE as an addition to benzine to neutralise the inflammability of the latter has been in-United States. It is found that from 30 to 70 per cent. of carbon tetrachloride is needed to make benzine fairly safe, but even these mixtures burn when spread upon readily combustible material. The use of carbon tetrachloride per se is recommended as a cleaning and solvent agent.

Copper-plating Wood.

The method of copper-plating wood used for sheathing the ends of aeroplane propeller-blades is thus described in the "Scientific American": First the wood is rendered impervious by saturating with a wax varnish, which is then coated with a thick linsced-oil varnish. Then a shellac varnish is applied and allowed to dry. A thin deposit of silver sulphide is produced by treatment with a silver-nitrate solution made with alcohol and water, the surface being then exposed to sulphuretted-hydrogen gas. Finally, copper is electrolytically deposited on this film copper is electrolytically deposited on this film.

Bamber Oil.

A Mosquiro-Lotion, used extensively in Ceylon under this name, has, according to the "Lancet," the following composition:

Citronella oil ... 1 part
... 2 parts
... 1 per cent. Paraffin oil ... Coconut oil Carbolic acid

The efficacy of the application lasts from four to six hourssufficient to give a night's sleep in comparative safety when a mosquito net is not available or cannot be used.

Celluloidal Gold.

SPEIDEL AND SMITH in the "United States Naval Medical Bulletin" give the following method of making colloidal SPEDEL AND SMITH in the "United States Naval Medical Bulletin" give the following method of making colloidal gold. To 1,000 c.c. of water in a 2-litre flask add 10 c.c. of a 1-per-cent. solution of gold chloride and 7 c.c. of a 2-per-cent. solution of potassium carbonate. Heat rapidly to the boiling-point, remove from the flame, and with constant agitation add 4 c.c. of a 1-per-cent. solution of formaldehyde. Continue the agitation while the colour passes through blue and amethyst to a final red. New glass vessels should be used in preparing the solution and the glass should be used in preparing the solution, and the glass should be cleansed successively with soapy water, aqua regia, tap-water, and triple-distilled water.

U.S. Standard Blue-black Ink.

Pure dry tannic acid ... 23.4 grams Gallic acid, in crystals ... 7.7 grams Ferrous sulphate ... 30 grams Dilute hydrochloric acid (U.S.P.) 25 grams gram 2.2 grams ...1,000 c.c.

Dissolve the tannic and gallic acids together in about 50 c.c. of warm water and allow to cool; dissolve the ferrous sulphate in about 150 c.c. cold water. Add the hydrochloric acid to the ferrous sulphate and immediately mix the solutions. Add the dye dissolved in water and the carbolic acid and make up with distilled water to 1,000 c.c. Mix the courter of the control of the co thoroughly.

Association Affairs.

Belfast.—A meeting of the Committee of the Chemists' and Druggists' Society of Ireland was held in the Society's rooms, 11 Waring Street, on September 4, the President (Mr. E. J. Roberts) in the chair. There were also present Messrs. S. Gibson, J.P., S. Suffern, W. J. Rankin, J. Long, E. J. Richardson, F. Lindsay, J. D. Carse, and S. Nevin (Hon. Secretary). Apologies were read from Messrs. R. Cambridge, J.P., F. T. Smith, J.P. (Antrim), and F. Storey. Before the business commenced Mr. Gibson referred to the death of Mr. Wm. Jamison, and moved "That the Committee of the Chemists' and Druggists' Society of Ireland desire to place on record their deep regret at the loss of their colleague, Mr. Wm. Jamison, who was so long connected with the Society, and held the position of President as successor to the late Sir James Haslett for the years 1905-67. Mr. Jamison took a great interest in the affairs of the Society, and was greatly interested in the passing of the Pharmacy and Poisons Act, being one of a deputation to London to further their interests. He always took a manly and broad view of all matters pertaining to the welfare of the trade." Mr. W. J. Rankin seconded the motion, which was passed in silence and was ordered to be sent to Mrs. Jamison and members of the family. Mr. Suffern reported eleven names to be proposed as associated satisfactory. Messrs. Suffern and Carse were nominated to represent the druggists on the Pharmaceutical Council The hope was expressed that the druggists would soon have further representation on the Council. A draft of the circular proposed to be sent to registered druggists asking them to become members of the Society was read and approved. Two new members were elected.

Birmingham.—A meeting of chemists in business in the city area, convened by the Birmingham Pharmaceutical Association, was held at the Imperial Hotel, Temple Street, on September 5, to consider what action, if any, should be taken to support the Executive of the Proprietary Articles Trade Association in the attitude they have found it necessary to adopt with relation to supplies of Elliman's Embrocation. The correspondence giving rise to the present situation was read by the Chairman (Mr. H. Buckingham), and after a discussion, which forcibly indicated the sympathy of the meeting with the P.A.T.A. Executive, the following resolution was unanimously passed: "That this meeting of Birmingham chemists supports the P.A.T.A. and the Wholesale Section in the action they have taken in regard to Messrs. Elliman, and refuses to sell Elliman's Embrocation until such time as the P.A.T.A. notify the Association that a satisfactory settlement has been arranged." It was further agreed to send a copy of the resolution to each member of the Minimum Prices Scheme, and to express the hope that he would loyally support the meeting in the above decision.

above decision.

Exeter.—At a meeting of the Exeter Association of Pharmacists on September 10, a resolution was unanimously passed endorsing the action taken by the P.A.T.A. with regard to the preparations of Elliman, Sons & Co., and pledging members to refrain from selling any of the firm's goods until the matter in dispute had been satisfactorily settled. Mr. Eric Lemmon (the Chairman), who moved the resolution, said chemists had for some years been selling these preparations at a profit which did not pay establishment-charges, and the attitude of the firm concerned was a direct challenge which the P.A.T.A. was bound to take up if its existence was to be justified. Mr. Milton, seconding, said he felt very strongly that they must loyally stand by the P.A.T.A., whose letters were couched in courtous and reasonable terms. The tone of the firm's reply was unpardonable and churlish in the extreme. It was further resolved that the Association's decision should be communicated to the local company shops and the Secretary of the Exeter Grocers' Association.

Excter Grocers' Association.

Ralifax.—The Halifax and District Chemists' Association met at the Old Cock Hotel on September 4, the President (Mr. B. C. Hodgson) in the chair. The reports of the July and August Pharmaceutical Council-meetings, submitted by Mr. Hugo Wolff, were read and appreciated. In view of restricted lighting it was resolved to close at 8 P.M. on Saturdays, commencing October 5. With respect to Mcssrs. Elliman's action, the following resolution was passed: "That the thirty-four pharmacists comprising this Association, including the Stores, heartily support the P.A.T.A. resolution, and also from September 5 refuse to sell any present stock of Elliman's Embrocation, and not to re-stock until an adequate margin of profit is assured." The question of similar treatment being applied to other

unremunerative proprietaries will be considered at the next meeting, as will also the distribution of Glaxo, Benger's Food, Virol, etc., to various municipal bodies at a cheaper rate than that at which pharmacists are supplied. Insurance correspondence completed the business, and with respect to Tariff revision it was felt that local Associations should be given notice earlier in the year, the present short notice allowing little time for a satisfactory revision.

Leeds.—The Leeds Chemists' Association have joined in the protest against the attitude taken up by Messrs. Elliman, and the members are withholding business in the firm's embrocations pending "reinstatement" of the two wholesale firms, Messrs. Barclay and May, Roberts, who are regarded as having been victimised.

Newcastle.—The members of the Newcastle-upon-Tyne and District Pharmacists' Association have unanimously decided to support the Proprietary Articles Trade Association by declining to sell Messrs. Elliman's goods until the differences between that firm and the wholesale and retail trades are satisfactorily adjusted.

the Proprietary Articles Trade Association and Elliman, Sons & Co. regarding the sale of Elliman's Embrocation was discussed at a argely attended meeting of the Nottingham Pharmaceutical Association, held on September 11, when Mr. A. E. Beilby presided. After some discussion a resolution was unanimously passed approving the request of the P.A.T.A. for better profit on Elliman's Embrocation, and urging the members of the Association not to supply the article until the dispute is settled and a reasonable profit guaranteed. The anomalies of the present constitution of the Pharmaceutical Council were considered, and eventually the Association, while acknowledging the good work done by the Council and the Local Associations Executive, decided in favour of the principle of territorial representation. The suggestion of the local authorities that shops in the city should be closed earlier during the coming winter in order to conserve fuel and light was the subject of consideration, but was deferred to see what arrangements can be made for Insurance dispensing.

Nottinghamshire.—A meeting of the Nottinghamshire Pharmacists' Association was held at Mansfield on September 3, Mr. Naylor (Vice-President) in the chair, when a resolution was passed that those present refuse to purchase Elliman's goods until a satisfactory arrangement had been made between that firm and the Proprietary Articles Trade Association. The resolution is to be sent to Messrs. Elliman and to every chemist in the county. The Pharmacists' Demo-bilisation Fund was appealed for, and every member present gave 5l. Promises of support from Messrs. Cadge and Cooling were read. Every chemist in the county is to be approached to support the Fund.

Reading.—At a fully attended meeting of the Reading.

Reading.—At a fully attended meeting of the Reading and District Chemists' Association held on September 6 the following resolution was unanimously carried: "That from the date of this meeting the members of this Association agree not to retail Elliman's Embrocation until Messrs. Elliman protect the retail prices of their preparation so as to afford a minimum profit of 20 per cent., in addition to withdrawing their action in regard to Messrs. May, Roberts and Barclay & Co."

Southend.—A meeting of the Southend-on-Sea Association of Pharmacists was held on August 30 at 167 High Street, the President (Mr. E. A. Holloway) in the chair. Mr. S. F. Body gave a brief outline of the report of the Pharmaceutical Society's Committee on Organisation, and it was agreed that a copy of this report should be sent to each member for perusal, further discussion with regard to the matter being deferred until a later meeting. A letter from the Proprietary Articles Trade Association was read, requesting the Association to take the necessary steps to support them in their controversy with Elliman, Sons & Co., and on the proposition of Mr. Body, seconded by Mr. Shields, the following resolution was passed: "That this Association is in agreement with the action taken by the P.A.T.A., and advises its members to discontinue the sale of Elliman's Embrocation until their fellow-retailers who have been accustomed to obtain their supplies through Messrs. Barclay and May, Roberts are enabled to obtain them through those channels." The Treasurer stated that the sum of 15s., collected as a subscription to the Face Values Committee, had been returned by the Secretary to that Committee was now working in conjunction with the P.A.T.A. the subscription was unnecessary. It was agreed that the sum collected be used for the purpose of supplying members of the Association with copies of booklets, "War Emergency Notes for Pharmacists" and Mr. S. W. Woolley's "Sale of Poisons, etc."

Insurance Act Dispensing.

A Record of matters concerning Chemists' interests in the National Health Insurance Acts.

Reports from Local Centres.

Blackburn. -- The Clerk has prepared a tabulated statement compiled from replies received to sixteen questions addressed to chemists relating to military service and this has been considered in the light of the recommendations contained in letters received from the Commissioners. As a result, it was decided to recommend for exemption

contained in letters received from the Commissioners. As a result, it was decided to recommend for exemption from military service twenty specified chemists, together with certain dispensers. The Clerk has reported to the Insurance Committee that the prescriptions dispensed by chemists during May numbered 11,351. The result of pricing chemists' accounts for April last was 11,954 scripts priced at 3937. 9s.; average cost per script, 7.89d.

London.—The Pharmaceutical Committee met at Bank Chambers, High Holborn, W.C., on September 10, Mr. G. B. Barnard (Chairman) presiding. The Insurance Commissioners wrote intimating that Mr. A. R. Melhuish had been appointed a member of the Insurance Committee. The reply of the Insurance Committee to the representations made regarding delay in payment of chemists' accounts was considered unsatisfactory, and the Secretary was instructed to urge upon that Committee the necessity of adhering to the Commissioners' time-table. The dispensing Tariff for 1919 was fully discussed, and it was unanimously resolved—"That the London Pharmaceutical Committee, having fully considered the conditions relative to the dispensing service, are satisfied that an increase on the present terms of at least one penny per prescription should be obtained for Insurance dispensing during the year 1919, and that the Pharmaceutical Society and the Local Associations Executive be so informed."

so informed."

Southend-on-Sea.—The Pharmaceutical Committee met at 167 High Street on August 30, Mr. S. F. Body presiding. The Tariff terms for 1919 were discussed, and on the proposal of Mr. Hamilton, seconded by Mr. Holloway, it was agreed that a copy of the following resolution should be sent to the Secretary of the Tariff Sub-Committee: "That this Committee is of opinion that the present terms of remuneration for N.H.I. dispensing are inadequate having regard to the greatly increased cost of living and working expenses, and would urge upon the Local Associations Executive Committee the necessity of securing increased terms for 1919." The report of the Central Checking Bureau on the prescriptions for December to March was considered satisfactory. satisfactory.

At the Counter.

-An educated native has written to a Cape

Some Fall!—An educated have pharmacy (57/9) as follows:

Dear Sir,—I have the honour to ask you for a medecin of Excedent I was fell on the Gloot before two months ago, I fell for a Back so I have got a Back Ach and my Beols I want a medecin to drink—and to rub.

Yours ffully,

GASSED" BY NATURE.—A Deal pharmacist (60/34), sends

s the following order:
"Please Will you mix my Little boy of 3 years old
up a powder as he fell in a dyke this morning and I
think he might have got a Little smell in the inside."

SUNDERLAND EFFORTS include the following: Oil Jubater; Drop Dead black; scedliths powder; Phenigrief Powder; Acid De Fiditey; Compoison; steel file pills; vl of cloves; Oil of ssuffrus; Hum du Aga; Lordman, Anricat, and Artzone. From the same source comes a written order for the literature of the control of the con Artzone. From the same source comes a written order for "Blue Unchin: it is to put in paste for papering."

WHEN THE PIGEONS HOMEWARD FLY.—Two "very unique" orders (12/55) come to us from a provincial pharmacist.

The first reads:

"Dear Sir will please send me A box of your paste as we are starting flying again, if you have the pills ready you can send me them, I dont want them that is coated, I want, the plane ones or the paste, if you will oblige me please, by return of post Because I am flying on Saturday,"

The letter ends, it will be seen, with a comma, possibly to be continued in the writer's next. The other epistle asks for "a price list of your pills for pigeons for getting them right for flying with in sweep stakes short distance, to make the cocks drive the Hens you have been recommended to me - - - ".

The Burma Rice-trade.

No other trade in a grain, which is a necessary of life to millions of Asiatics, can show such an advance as the Burma rice trade. Forty years ago the exports from Burma were less than three-quarters of a million tons. In the year before the war broke out they were just below 23 millions of tons. It must be admitted that Germany had something to do with this development of the trade. In Rangoon, its chief seat, and in all other Burman ports, Germans were allowed to settle, to own land, to build and work rice-mills, on exactly the same footing as if they were British subjects. When in an Indian famine year the Government of India purchased Burma rice for distribution in the famine-stricken area Sir Ashley Eden, the Chief Commissioner of Burma, appointed one British and one German firm as agents to act for the British Government as purchasers and shippers appointed one British and one German firm as agents to act for the British Government as purchasers and shippers of rics to India. The action was criticised adversely at the time, but it was no doubt wise, as it prevented an undue rise in prices which would have taken place had a German firm not been combined with a British one as Government suppliers. The opening of the Suez Canal did a good deal to benefit the rice trade, and to enable the grain to be supplied at cheaper rates at places distant from where it was cultivated. Prior to 1870 sailing vessels were used as carriers, and from three to five months was taken up in the long route by the Cape of Good Hope. So that the grain should not be discoloured in this lengthy voyage 20 percent of it had to be shipped unhusked and freight paid on a substance which was practically waste when the rice was milled. But after the Suez Canal was opened steamers did the journey in from thirty to forty days, and it was possible cent. of it had to be shipped unnushed and reight part of a substance which was practically waste when the rice was milled. But after the Suez Canal was opened steamers did tho journey in from thirty to forty days, and it was possible to ship white rice fully milled without undue risk of discoloration. Thus a considerable amount was saved in freight. But the inventive genius of one man (Cowie), a Scottish chemist, did more for the cheapening of rice production, not only in Burma but in Siam, French Cochin China, and many other places in South-Eastern Asia, than anything else. Cowie discovered a process which utilised the husk of the grain, hitherto a waste substance, as fuel. Formerly coal or wood had been used in the rice-mills, and the husk produced was thrown away. By utilising the latter as fuel, which could be done with very little alteration in the existing machinery, milling hire was reduced by from 50 to 60 per cent. Cowie remained a few years longer in Burma, and then retired to Scotland with a very modest fortune, and without any public recognition of the services he had rendered to the rice trade in cheapening the food of millions. Many men have been raised to the pecrage for services of considerably smaller public value. In the consumption of fuel alone in the last thirty years many millions sterling must have been saved. At a time like this, when coal is in large demand and has risen so greatly in price all over the world, it is satisfactory to know that none is required in our Burma rice-mills, and that some four hundred of them, from the largest to the smallest, now use paddy husk as fuel. Nor are the services rendered by this formerly despised paddy husk over when it has exceed as an efficient substitute for coal or wood as fuel. It then becomes a most valuable deodoriser, cheaper, more abundant, and as efficacious as charcoal. When laid upon night-soil or drain-sweepings it prevents them from becoming breeding-places for flies and mosquitoes, and they can be removed from crowded localities with without being a danger to the public health and without evil odour rising into the air. Rats and snakes will avoid localities where burnt paddy husk has been liberally spread, localities where burnt paddy husk has been liberally spread, and as fleas from the former are said to be the great propagators of plague, its value can hardly be overestimated. Mixed with earth it is often used for filling up low-lying localities, and in gardens and orchards it has been found an excellent manure.

It has often been said that the world knows little or nothing of its greatest men. Certainly no public official or

nothing of its greatest men. Certainly no public official or private individual has within the last forty years done greater good in Burma than this modest chemist from Scotland, when he revolutionised the rice trade by his discovery of how a hitherto waste substance could be utilised as fuel. The value of rice as food will perhaps in future years be more generally recognised in Great Britain than ever it more generally recognised in Great British than ever it was before. Germany was not slow to recognise it when once she obtained a footing in Burma, and took the bulk of our export. Those days are over, and for a generation at any rate her barbarous mode of carrying on the present war will probably prevent her from again resuming a posi-tion in British possessions such as was formerly allowed her. She has benefited by Burma's cheap rice brought about by Cowie's invention to a larger extent than other European nation. Britain and her Allies will probably in future

years require all the rice Burma can spare.

Trade Report.

42 Cannon Street, E.C. 4, September 12, 3 p.m.

Business remains in much the same condition as previously reported, the general tone being quiet. Pharmaceutical chemicals have, however, shown rather more activity, and the scarcity of a number of products has been made more manifest this week, with a better demand for aspirin, salicymanifest this week, with a better demand for aspirin, salicy-lates, citric acid, and menthol, the prices of which have all improved, particularly aspirin. Phenazono is rather dearer, while phenacetin is weaker; both sulphonal and methyl sulphonal have sharply advanced owing to scarcity. Acetanilido is unchanged; amidopyrin is becoming very scarce, and benzcates have a rising tendency in some quarters. Bromides are quiet, the demand having subsided. Cost of production of cocaine still increases. Ichthyol substitutes may be dearer; lithia salts are in fair demand. Milk-sugar is unsettled, and vanillin is cheaper. Arsenie is weak; Chinese crude antimony is scarce and dearer on spot. Canary-seed is again higher; ergot and cascara sagrada Canary-seed is again higher; ergot and cascara sagrada

Higher	Firmer	Easier	Lower
Antimony (cr.) Aspirin Bismuth subgallate Canary-seed Citric acid Liquorice-juice (block) Methyl sulphonal Phenazone Sulphonal	Farina (Jap.) Menthol Peppers Quinine	Coumarin Phenacetin	Cloves Isinglass Juniper-berry oil Vanillin

Cablegram.

New York, September 12.—Business in drugs is fair. Cedeine pure alkaloid has been advanced to \$9.75 per oz.—a rise of 60c.—and sulphate is .50c. dearer at \$7.80 per oz. Podophyllum (mandrake) root is ½c. dearer at 12c. Jalap has advanced to 60c. and serpentary-root to 50c. Mexican sarsaparilla is lower at 60c. per lb.

ACETANILIDE.—New York, under date of August 21, reports a strong export and domestic demand on account of the a strong export and domestic demand on account of the granting of export licences; price remained at 70c. to 72c. per lb. The London market is unaltered at from 6s. 3d. to 6s. 6d., with the demand almost negligible of late, which is rather surprising. As few imports have been received, stocks are being gradually worked down.

AGAR-AGAR is firm, with spot scllers of No. 1 Kobe strip at 3s. 5d. per lb.; sales of No. 1 afloat have been made at 3s. 4d. and forward at 3s. 5d. c.i.f. The exports from Japan during June 1918 amounted to 366,384 kin, valued at 442,965 yen. During the six months ended June 30 the exports and destinations were as follows:

exports and destinations were as follows:

1.	1916	1917	1918
To	Kin	Kin	- Kin
China	358,420	551,171	133,122
Hong-Kong	273,534	234,758	112,960
Straits Settlements	95,504	76,845	41,605
Dutch Indies	307,620	140,488	188,492
Asiatic Russia	141,537	877	131
Great Britain	254,765	68,984	1,494,180
France	233,421	46,400	· —
United States	412,172	196,418	69,272
Other countries	156,618	129,013	107,617
	2,233,591	1,444,954	2,147,109

ALMOND OIL remains firm at from 4s. to 4s. 3d., as to

quantity.

Amiddeperrin is becoming very source, with little coming forward from Switzerland; the spot price is still 57s. 6d.

Anise Oil, Star, is quiet, with spot sellers of "Red Ship" brand at 5s. 3d. and 5s. 4d. c.i.f.

Antimony.—Chinese crude is very firm and dearer at 65l. per ton net ex wharf, with only a few tons in stock. The movement of antimony ores from Bolivia is for the time being handicapped, mail advices stating that the virtual suspension in the early part of this year was chiefly due to purchases being stopped by the British authorities, and this reacted rather seriously upon the industry in Bolivia, where surplus stocks were thus held up pending further arrange-

ments. This industry before the war was quite negligible, while exports were practically nil. The exports from Bolivia during 1915-1916 assumed, however, an extraordinary expansion up to 27,400 tons, the greater part of which came to this country. Comparatively small quantities went to America and France.

AREENIC.—Trading became rather dull towards the close of last week, quotations weakening generally, and caution is recommended in buying, as for certain reasons it would not be surprising to see a decided set-back later. First-hand offers are not being pressed, but a certain amount of

not be surprising to see a decided set-back later. First-hand offers are not being pressed, but a certain amount of second-hand material is to be had on easier terms. The quotation of 100% for best Cornish powder in small lots is now probably an extreme figure, while the nearest range of values is about 95% to 98%, delivered London.

ASPIRIN is very firm and dearer. Makers appear to be well sold forward, and it is difficult to buy any substantial quantity from them for delivery forward. Even at present prices the makers, it is said, are earning but a slender profit at the high rate which they may for acetic analysished.

quantity from them for delivery forward. Even at present prices the makers, it is said, are earning but a slender profit at the high rate which they pay for acetic anhydride, and a further improvement would not be surprising. There are spot sellers at 15s. to 15s. 6d. per lb. It is reported that export permits are being refused.

Barbtone.—A consignment is coming forward from a new maker in Switzerland.

Benzoates.—The price of benzoic acid in U.S.A. is still very low, it being possible to buy at \$2.65, but export permits are only sparingly issued. The spot (London) price is 18s. to 18s. 6d. Sodium benzoate is very difficult to find on the spot at from 21s. to 22s., which is regarded as too high, and both products should be appreciably cheaper.

Bergamor Oil is offered at 24s. 6d. c.i.f. to arrive, and on the spot from 23s. 6d. to 25s. is quoted.

Bisnuth Subgallate has advanced to 15s. 8d. per lb.

Bleaching-powder.—The Ministry of Munitions has fixed a maximum price of 15l. per ton net cash, delivered free on rail at makers' works (see p. 35).

Beomides are quiet, as the season of heavy consumption of potash and ammon. is practically over. The irregularity in the prices of these two salts still exists, and as insufficient supplies reach this market it is impossible to satisfy all consumers. Dealers have to pay 8s. 6d. for potash crystals, while pre-war customers of certain distributing firms pay 6s. 4d., and 4s. 6d. for ammonium; soda is 5s. to 5s. 5d.

Camphor (Refined) remains firm, Japanese 2½-lb. slabs being quoted at 5s. to 5s. 1d. and ½-oz. Tablets at 6s. 6d.

CAMPHOR (REFINED) remains firm, Japanese 2½-lb. slabs being quoted at 5s. to 5s. 1d. and ½-oz. Tablets at 6s. 6d. per lb. on the spot. The exports from Japan during June amounted to 191,220 kin, valued at 440,575 yen. During the six months ended June 30 the shipments were as follows:

		1916	1917	1918	
Kin	***	2,751,986	1,725,226	1,158,533	1
Yen		2,564,712	2,889,756	2,306,704	
The destinations we	ero	as follows:	•		
		1916	1917	1918	
To		Kin	Kin	Kin	
British India		794,987	412,447	277,511	
Asiatic Russia		261,419	283		
Great Britain	•••	612,827	46,583	292,443	
France	•••	232,510	15,165	23,965	
United States		733,108	1,156,838	383,073	
Australia		31,652	17,392	62,907	
Other countries		85,483	76,518	118,634	
			·		
		2,751,986	1,725,226	1,158,533	

CANARY-SEED continues to advance. Early this week ordinary to good Morocco sold at from 335s. to 350s. per quarter, and since then higher prices are asked.

CARBOLIC ACID is firm at from 1s. 7½d. to 1s. 8d. per lb. for 39° to 40° C. ice crystals in large drums.

CASCARA SAGRADA.—The London stock on August 31 was 23 tons, against 87 tons and 115 tons on August 31, 1917 and 1916 respectively.

CASSIA OIL is firm at 8° co. the

and 1916 respectively.

CASSIA OIL is firm at 8s. on the spot for 80 to 85 per cent.
c.a., and 7s. 3d. for 70 to 75 per cent.

CHLORINE (LIQUID).—The Minister of Munitions has fixed a maximum price of 6d. per lb. for liquid chlorine, delivered free on rail at makers' works.

CITRIO ACID is very firm and dearer at from 3s. 8d. to 3s. 9d. on the spot.

CITRIC ACID is very firm and dearer at from 3s. 8d. to 3s. 9d. on the spot.

CITRIC MATERIALS.—It is reported from Sicily that the crop of citrate of lime and concentrated lemon-juice this year will not exceed 10,000 tons, of which about one-half has already been placed. There are, however, to be added 25,000 tons brought forward from the last season. As yet no regulations have been made regarding the new crop, but it is possible the Government will also buy it up; on the basis of the present exchange citrate of lime is quoted at 46l. 15s. per 1,305 kilos. f.o.b., and lemon-juice at 49l. per pipe of 130 gallons.

CLOVES are quiet, with buyers of fair Zanzibar on the spot at 2s. 11d. per lb.

COCAINE.—The demand has been fairly well met by the recent imports from Holland, but, unfortunately, the cost of cocaine is now appreciably less.

COD-LIVER OIL.—Telegraphic advices received from the "Oil, Paint, and Drug Reporter's" correspondent at St. John's, Newfoundland, state that "the British Government is now negotiating with Canadian authorities for the purchase of the first medicinal cod-liver oil and common cod oil for of the finest medicinal cod-liver oil and common cod oil for British consumption. Sales have been made at \$115 per barrel, c.i.f. Liverpool. The result of this year's catch to barrel, c.i.f. Liverpool. The result of this year's catch to date has been disappointing, and not nearly equal to the results attained last year at this time. The lack of fish, the shortage both in boats operating and men to man them, the abandonment of fishing in the presence of enemy submarino operations off the fishing banks, the poor quality of livers—all these factors tend to increase value on both medicinal and common ood-liver oil. Taken together with the inquiry of the British Government for large quantities of oil, the result in the primary market is marked and a boom in prices is predicted."

COPPER SULPHATE.—The position is nominally unchanged

COPPER SULPHATE.—The position is nominally unchanged, and the home price for farm use still remains at 52l., de-livered net makers' works. There is a little business going through dealers and merchants for export to Algeria and other North African ports, but permits are difficult to obtain. F.o.b. prices range from about 64l. 10s. upward from Liver-F.o.b. prices range from about 64%. 10s. upward from Liverpool, less 5 per cent. During the six months ended June 30, 1918, Japan exported 1,724,361 kin of copper sulphate, valued at 460,451 yen, compared with 976,019 kin, valued at 272,528 yen, during the corresponding period of 1917.

COUMARIN is offered at the easier rate of 167s. 6d. per lb. CREAM OF TARTAR.—With few arrivals and the decreased home production prices are very steady at from 415s. to 425s. per cwt., according to seller.

CREDSOFE CAREONATE is offered at 90s. to 95s. on the spot, as to soller.

to seller.

DRAGON'S-BLOOD.—Fifty-two cases have arrived in London. ERGOT is very firm, with a limited quantity of Spanish obtainable at 5s. 6d.

EUCALYPTUS OIL is quiet, with 65 to 70 per cent. test offering at 2s. 7d. per lb.

FARINA.—Japanese No. 1 is firmer at 82s. 6d. to 83s. per FARINA.—Japanese No. 1 is firmer at 82s. od. to 80s. per cwt. on the spot, at which sales have been made; sweet-potato flour is steady, with spot sales at 79s. 6d.

FENUGREEK-SED.—We understand that the 10,000 bags which arrived last week were from Morocco and not from Todia as stated.

FERRI ET AMMON. CIT. VIRID. has advanced to 3s. 9d. to

s. per lb., as to quantity.
GINGER.—Sales of Japanese to arrive are reported at

GUAIACOL CARBONATE.—A fresh consignment is expected from Switzerland before long, and the price is expected to bo slightly easier in consequence; meanwhile scarcity exists on the spot.

HEXAMINE.—It is regrettable that permits to import larger quantities have not been granted, as the price in U.S.A. is

quantities have not been granted, as the price in U.S.A. is appreciably below that ruling here, the spot value being 9s. HYDROQUINONE is steady at from 17s. to 17s. 6d. per lb. ICHTHYOL SUBSTITUTES will probably be dearer owing to the increased cost of production, and 2s. 6d. is likely to be regarded as a minimum for a good substitute.

INSECT-FLOWERS.—The output in Japan this year is being reduced, roughly, to a million kwan (1 kwan=8.2 lb.). Exports to England and France have fallen off, and the only active buyer is the United States.

IFECACUANHA.—The London stock on August 31, 1918, consisted of 614 packages Matto Grosso, 3 Minas, 61 Cartagena, and 105 East Indian, making a total of 783 packages.

and 105 East Indian, making a total of 785 packages.

ISINGLASS.—The large supply of 1,235 packages offered at auction, but the trade demand was poor, about 300 packages selling at a decline of from 13. 6d. to 4s. per cwt.

JUNIPER-BERRIES are still obtainable at 35s. per cwt. on the spot, although prices in Italy are higher as the result of the fall in Italian exchange.

LAVENDER OIL.—The new French crop is expected to be offered in about a fortnight, but it has been small owing to labour shortage, and the price will be higher.

othered in about a fortnight, but it has been small owing to labour shortago, and the price will be higher.

LEMON OIL.—Letter advices from Sicily indicate that the Government decided to requisition about 600,000 lb. of old and inferior lemon oil, this representing about one-half of the existing stocks. The price at which it was taken over was "not very high," but holders are expected to be compensated on their remaining stocks. London spot prices are from 4s. 6d. to 5s.

LIQUORICE-HUEL—As a result of the fall in Italian.

LIQUORICE-JUICE.—As a result of the fall in Italian exchange prices of block juice are about 20s. to 25s. higher, importers asking from 345s. to 370s. per cwt.

LITHIA SALTS.-The consumptive demand is active, but the carbonate is still obtainable at 12s., and may go dearer; for citrate 10s. is asked. It is reported that American makers have nothing to spare, stocks having passed out of their hands.

MENTHOL has advanced a further 3d. per lb. on the spot, with sales of Kobayashi-Suzuki at from 16s. 6d. to 16s. 9d. The exports from Japan during June amounted to 34,044 kin, valued at 225,769 yen, and during the six months ended June 30 they were as follows:

,		1916	1917	1918
Kin	•••	224,t42	143,132	161,615
Yen		1,445,404	932,754	977,882
		, ,	,	,

The destinations were as follows:

	1916	1917	1918
To	Kin	Kin	Kın
British India	 7,700	5,620	10,809
Great Britain	 94,037	17,241	100,801
France	 50,168	1,361	675
United States	 63,190	110,096	42,621
Other countries	 9,547	8,814	6,709
,		·	
,	224,642	143,132	161,615

It will be seen that the exports to this country during the six months ended June 30 were extremely large. Arrivals in London and Liverpool this week amount to over 500 cases. METHYL SULPHONAL is practically unobtainable at the moment, and the price is about 100s.

Milk-sugar.—The position is nebulous in view of uncertainty as to what further Government action will be taken in regard to price. The previous high prices asked for spot parcels have come to an end, and 4s. to 4s. 6d. per lb. will buy standard makes.
MINT OIL.—Japanese

MINT OIL.—Japanese remains firm, with sales of Kobayashi-Suzuki on the spot at from 4s. 6d. to 4: $7\frac{1}{2}d.$, and buyers. The exports from Japan during June amounted to 16,226 kin, valued at 32,167 yen. During the six months ended June 30 the exports were:

			1916		1917	191 8
Kin	***	•••	231,974	•	106,232	78,603
\mathbf{Yen}		•••	533,724		235,784	161,671

Mustard Oil.—A good quantity of the fixed oil has arrived from India, for which a market is wanted.

Nux Vomica.—Sales of unwashed Cochin have been made on the spot at 75s. per cwt.

Oils, Essential.—A few current spot quotations are as follows: Bourbon Geranium 27s. and African 32s. Lemongrass, 70 to 75 per cent. citral, 7d. per oz. Paraguayan Petitgrain, 17s. 6d. per lb. Bois de Rose Femelle, 18s. per lb. White Camphor, 170s. to arrive. Ccylon Citronella in small drums is rather dearer at from 3s. 74d. to 3s. 9d., and Java in large drums is 6s. 3d. Palmarosa is 17s. to 18s. French Rosemary is 4s. 6d. and Spanish 4s. Spanish 4s.

Spanish 4s.

OLIVE OIL.—The "Gaceta de Madrid" of August 13 contains a Royal Order, dated August 9, which fixes at 20,000,000 kilos. the quantity of clive oil (in addition to the quantity already licensed for export) which may be exported from Spain, up to the end of the current year, in accordance with the detailed regulations laid down in the Order. At least 50 per cent, of the authorised quantity is to be exported to American countries; and all exports of is to be exported to American countries; and all exports of oil are to be subject to a tax of 30 pesetas per 100 kilos., net weight, in accordance with Article 7 of the Royal Order of April 22 and subsequent measures. Exports from Italy of April 22 and subsequent measures. Exports from Italy are still prohibited, but in spite of this prices for local consumption have reached very high limits; good edible oils are being sold at 2081. per ton f.o.b. in casks. The new crop in Italy and Sicily looks well, and if the weather keeps favourable there will be a good production.

ORANGE OIL.—Sicilian sweet is offered at 11s. 9d. c.i.f.

*Pepper is firmer, with spot sellers of fair black Singapore at 2s. 2½d., Tellicherry at 2s. 4d., and Aleppy at 2s. 3½d. White Muntok is offered at 3s. 8d. on spot, and to arrive at 3s. 6d. c.i.f.

at 3s. 6d. c.i.f.

THENACETIN.—Supplies are out of all proportion to the demand, but the low price of 17s. 6d. to 18s. at which it is offered may stimulate consumption this winter and revive the public demand for tablets.

PHENAZONE.—Unlike phenacetin the demand exceeds the supply, and as there is little coming forward prices are

supply, and as there is little coming forward prices are higher at 50s. per lb.

PHENOLPHTHALEIN.—Supplies are only obtainable in small lots, with sellers at 50s. per lb.

PIMENTO is quiet, with spot sellers at $7\frac{1}{4}d$. per lb.

POTASH PERMANGANATE.—The price in New York has been reduced to \$1.30 to \$1.50 per lb., the increased production being given as the cause of the decline.

PISTACHIO NUTS.—New Italian is firm at 3s. 3d. per lb. f.o.b., the crop being limited.

QUININE.—Only small lots can be bought from dealers' hands at 4s. 3d. per oz. There is no news yet of the consignments which are said to be on the way.

SACCHARIN remains firm, and there is very little to come

forward now from America, the bulk of the licensed stuff having arrived, and the sugar authorities in London appear adamant in their refusal of licences to import fresh supplies. This points to an increase in the homo production. Meanwhile business has been done in American 550-pure at 262s. per lb., duty not paid, and dealers are obtaining 390s. to 395s., duty paid. The public demand for tablets continues undiminished, but there is more than a sufficient number of firms engaged in the production, and a word of caution

SALICYLATES.—The majority of the makers of salicylic acid appear to have sold out for some time ahead, and are now holding out for 4s. 6d. to 4s. 9d. There is a certain amount of profit-taking on the part of dealers, but it would not be surprising to see a further advance, as there are plenty

of profit-taking on the part of dealers, but it would not be surprising to see a further advance, as there are plenty of buyers and the export demand is good. Sodium salicy-late is still steady, but the demand is nothing like that prevailing for acid, prices being from 6s. to 6s. 3d.

SHELLAC remains quiet, with usual standard quality TN Orange offering at from 335s. to 340s., and good at 345s.; cakey AC Garnet is 330s. and pure button 345s.

SODA TARTARATA.—Howards' list-price is 192s. per cwt. and 189s. in cwt. lots, their list price for pulv. seidlitz being 150s. 9d. and 1-ewt. lots 148s. 9d.

SQUILL is dearer in Italy as a result of the fall in the Italian exchange, but there is a fair quantity on the spot offering at between 50s. and 70s., as to quality.

SULPHONAL, owing to scarcity, is dearer at 100s. per lb.

SULPHUR.—The exports from Sicily during the first half of 1918 amounted to 126,504 tons, against 73,754 tons during the same period of 1917. The production during the above period was 99,664 tons, against 79,929 tons during the first six months of 1917. The existing stocks on June 30, 1917. The Consortium was renewed for a further period of twelve years from its expiration on July 31, 1918. The exports to France; Great Britain, and the Colonies is still in the hands of the Government, as per the agreement made with the Allies. The exportation to other countries is effected against interchange of foreign products needed in Italy, which renders business exceedingly difficult.

Sumac.—Letter advices from Italy, dated August 20, indicate that there is an important stock to be brought forward.

SUMAC.—Letter advices from Italy, dated August 20, indicate that there is an important stock to be brought forward from last year's crop. The new erop is fair, and the quality is expected to be good. Prices remain high, ground sumac offering on the above date at 17l. 3s., and leaf at 16l. 17s.

per ton f.o.b. Sicily.

TARTARIC ACID is very firm at 3s. 7d. per lb. on the spot.

TARTARIC MATERIALS.—Mail advices from Sicily, dated

August 20, state that this is the only product which has been influenced by the decline in the exchange. Stocks are, however, almost exhausted, and the Italian factories are in however, almost exhausted, and the Italian factories are in need of raw materials. It is anticipated that when inquiries are resumed prices will advance again, and, of course, exchange differences will be borne by foreign consumers. The Italian wine crop is estimated this year at only 43 million hectolitres, against 48,715,000 hectolitres last year. Turpentine.—Indications seem more stringent, while reserve supplies, which remain absolutely under Government

serve supplies, which remain absolutely under Government control, are quite likely to become further depleted owing to the lack of arrivals from the U.S.A. The maximum official price of 120s. per ewt. has been ruling for a few weeks past, and this is likely to continue. The supply of cheaper substitutes is certainly anything but liberal. The position in America is reported firmer, while the outlook in regard to production leaves something to be desired. There is no doubt that the industry is hindered to some extent by labour shortcomings, as supplies at distributing centres are more restricted. centres are more restricted.

VANILIN.—The demand is very slack, and some dealers are evidently disposing of their stocks at a loss, with offers.

Wax, Vegetable.—Japanese is firm, with soot sellers at 126s. per cwt. During the six months ended June 30 the exports from Japan were as follows:

1916 1917 1918 ... 2,882,675 ... 792,856 2,107,691 4.451.534 Yen 679.311 1,401,633

ZINC OXIDE.—Home makers find no little difficulty in satisfying requirements, while business seems chiefly a matter of negotiation, so that prices are nominal. Foreign material is in limited supply at prices ranging widely from about 75%. to 95% per ton, delivered ex London docks. Conditions in zinc dust remain tight, with prices varying from 90% to 108%, according to quality, free on rail home ports.



Letters for this section should be written on one side of the paper only. The writer may adopt an assumed name for purposes of publication, but he must in all cases furnish his real name and address to the Editor.

Face-value.

SIR,—I have received so many friendly, kind, and interesting communications from all parts of the kingdom in connection with the "Face-value" campaign that I feel I must once again ask the hospitality of your columns to express my sincere thanks to the writers of same. It is impossible to express what a help, support, and, indeed, an inspiration in bringing about the object in view, the generous appreciation of the eraft has been to the Committee, without it they could have done little or nothing. mittee; without it they could have done little or nothing. mittee; without it they could have done little or nothing. The results obtained, as so many writers say, have been more than was ever expected in the short time the campaign has been running. The term "face-value," unknown a few months ago, has now beenne a household word in the trade; many leading manufacturers have recognised the principle; large numbers of important articles have been placed on the "face-value" list; and extra profits have been directed into the coffers of the chemists and druggists. Speaking of money, at a rubble meeting held at the Holbory. Speaking of money, at a public meeting held at the Holborn Restaurant a few months ago, I gave a pledge that all moneys subscribed by Associations not used in the campaign Speaking of money, at a public meeting held at the Holborn Restaurant a few months ago, I gave a pledge that all moneys subscribed by Associations not used in the eampaign should be handed over to the Pharmaceutical Benevolent Fund. In a few weeks a report will be issued by the Hon. Secretary, Mr. Hugo Wolff, AI.P.S., and the Hon. Treasurer, Mr. A. Higgs, J.P., by which it will be seen that, owing to donations by various members of the Committee, the whole of the moneys given by various Associations will (with their consent) be handed over bodily to the Pharmaceutical Benevolent Fund without any deductions whatsoever, the expenses of travelling, printing, advertising, etc., incurred being defrayed by the "Face Value" Committee themselves. This report is now being edited by Mr. Hugo Wolff, as it will really be a history of all the proceedings of the "Face Value" Committee from the very commencement; and in connection with Mr. Hugo Wolff I should like to testify to the magnificent way in which he has engineered the eampaign—he must have burned a good deal of midnight oil and expended a good deal of surplus energy over it. I should also like to take this opportunity of paying a tribute to my fellow-workers of the Committee, who have all without exception ungrudgingly and without stint given their time, energy, thought, and money most freely. The question now being asked by some is, "What next? Is the eampaign over?" My answer is, "No; it has only been commenced." Everybody knows that four members of the "Face Value" Committee have been co-opted by the Proprietary Articles Trade Association to join four of their own members, the eight together forming a Sub-Committee, to be termed the "Face Value" Sub-Committee, working under the auspices of the P.A.T.A., but with the sole object of making every effort, straining every nerve, and leaving no stone unturned to bring about universal "face-value." My firm and unshaken opinion is that now the P.A.T.A. have he in the kingdom to continue without abatement their interest, kingdom to continue without abatement their interest, enduciasm, and co-operation. I would say to them all, "Keep it going, it is well worth fighting for; all that is now wanted is a long pull, a strong pull, and a pull all together to bring our ship into the desired haven."

Faithfully yours,

34 Hanover Street, Liverpool. W. H. Saunders.

Chemists and Military Service.

SIR,—As a student of pharmacy who has spent the past three years with the British Expeditionary Force, I am naturally interested in matters likely to benefit those who are placed in similar circumstances. I am a constant reader of the C. & D., and I am always on the look-out for any suggestion which might benefit us in the career we have chosen to follow. Up to the present I have not found any reference to a betterment of our conditions. What I have read regularly are the names of numerous assistants who read regularly are the names of numerous assistants who are found by their Tribunals to be indispensable to their calling. Is it not about time some of these men had a look round here? It seems to me that it would not be very

difficult to institute a scheme of substitution which would benefit many of us without much inconvenience to those who had the good fortune to remain at the dispensingwho have had the good fortune to remain at the dispensing-counter. In my case, which is an extremely common one, I have had to leave pharmacy almost entirely alone for the three years that I have been out here. This, considering that I was then at the commencement of my Minor studies, has been a serious set-back. I would like it to be understood that I am not writing this as a complaint, but as a suggestion which, if carried through, I feel sure would benefit the profession generally. Yours, etc.,

SERGT. R.A.M.C. FIELD AMBULANCE. (81/17.)

SIR,—I believe I am touching on a subject which has been brought before you on previous occasions, but, owing to various causes, the result of the discussion has not reached me where I am—viz., What is to be the true status of the pharmacist who is serving in the Army to-day? Four years have already passed, and no appreciable advancement has been made. To hear of cases where pharmacists joined up fifteen months ago and still are, in a letter of two months ago, privates in wards is not satisfactory to the members of a profession which ranks immediately below that of a medical man. South Africa gives the rank of staff-sergeant to a dispenser, but even there no difference is made between the pharmacist and the compounder. In the Army of to-day the compounder is out of date, and the pharmacist is in demand; therefore, why not give him a position of responsibility, for which his training has fitted him, and a corresponding rank to uphold it?

Pharmacist in the Army. (120/16.) SIR,-I believe I am touching on a subject which has

Parliamentary Representation of Chemists.

SIR,—I enclose a paragraph from the "Observer," which states that Dr. Addison, M.P., will address a meeting of medical men on October 1 to occure the selection of medical men for election to the selection of medical medical men on October 1 to secure the selection of medical men for election to the House of Commons. I am sure all chemists will support the views you put forth on "Pharmacy in Parliament" (C. & D., August 31), and the meeting of the doctors strongly supports your view that the Pharmaceutical Council ought to consider the matter from the chemist's point as soon as possible. We shall probably have a General Election this year or early in the new year. Mr. Glyn-Jones has done such splendid service for pharmacy in the House we all are sorry he is not standing again, but we are glad to have his services as our new Secretary. He will be able to guide and advisc our Council and the new Members of Parliament on pharmacy matters. Therefore it is the duty of the Council to call a meeting of the directors of the Pharmaceutical Parliamentary Fund to select suitable candidates at once. I believe we ought to get three or four members, one from each Party—Unionist, Liberal, Labour, and Irish. We hope also that Mr. Wool-cock will be returned to Parliament. He will always be cock will be returned to Parliament. He will always be true and faithful to us, and willing to help with his great ability; only let us be up and doing and get ready, and let our leaders give us a strong lead, and chemists all over the country will be delighted to work for them. And what with a new Register and new House and Ministry of Health Bill coming, it is most important pharmacy should be strongly represented in Parliament. Yours truly, Yours truly, ISAAC T. LLOYD.

"Dispensing Does Not Pay."

SIR,—The reprint in the C. & D., August 31, p. 52, from the C. & D., August 15, 1868, at once attracted my attention. It has a wonderful relevancy to the current discusthe C. & D., Alighet 15, 1808, at once attracted my attention. It has a wonderful relevancy to the current discussion on Insurance dispensing, because it is difficult sometimes to gather what terms would satisfy many panel chemists. You readily get them to say "It does not pay," but when you ask them to state the terms they would call sufficient you get no answer. No doubt that old cry of fifty years ago is the same we hear to-day. I think there is no doubt dispensing mediciones is in most cases the least remunerative part of an ordinary chemist's business, and only where you can keep a staff going steadily at private dispensing work does it pay. But with most chemists who only have a small number of prescriptions each day, and who depend for an income on the trade in other things than prescriptions, the other things pay far better, and the amount of time and worry and labour in making up medicines makes such work relatively unremunerative. As one chemist said to me the other day, "I dispensed an Insurance prescription for nowders on which I had a gross profit on cost of less than sixpence, and in that time an untrained girl at the counter took 15s., on which the gross profit on cost was at least 80 per cent." The point of your reprint is that unremunerative dispensing is not an exclusive feature of Insurance work, and is nothing new.

This seems to me a rather important consideration, to which due weight may require to be given in any reconstruction of the terms of pharmaceutical service under the National Insurance Act.

Yours faithfully, DRUG TARIFF. (5/9.)

Demobilisation Problems.

Ser,—It is sincerely to be hoped that the suggestion thrown out by your correspondent Mr. Pike, of Nottingham, in his letter (C. & D., August 31, p. 51), will not be adopted by the Pharmaceutical Society. To admit men to the business without having passed a Qualifying examination would be a disastrous policy, not only to the trade but to the men themselves. By all means let us encourage the men who have faced the dangers and perils of this awful war; they have fought and bled for their country, but it cannot be ignored that they have fought for themselves as well as for others, as their lot under a dominant German Empire not be ignored that they have fought for themselves as well as for others, as their lot under a dominant German Empire would have been slavery itself, so that I do not think it is necessary to waste too much sentiment on this side of the question. But the future has to be faced, and the necessities of reconstruction urge that those who have to fill the responsibilities of the future should be well equipped. I would therefore favour the suggestion of Mr. Frank C. Jones that we should have refreshers for the qualified, a course of studies on favourable terms for the unqualified. at to be hoped that this subject will be well ventilated and the feelings of the whole trade expressed. Something must be done in this matter, and it will be a great pity if a cheese-paring policy is adopted.

Uppingham.

Yours truly, C. BAYLEY.

Legal Queries.

Most difficulties in trade law are explained in the legal section of "The Chemist and Druggist Diary," 1917, beginning on

- G. C. (168/25).—We do not remember any case in which a dentist's name has been erased from the Register because he carried on and advertised a chemist's business.
- S. B. (122/53).—Your proposal to use a rubber stamp for your name and address and an indication that it is an order complies with the requirements of the halfpenny. post-rate.
- E. C. (169/22).—It will be best to register an invented name as a trade-mark for the medicated chest-protector. Particulars regarding the registration of trade-marks were given in The Chemist and Druggist Diary, 1914, p. 220. As the chest-protector is held out as a cure, it will need to be stamped unless a disclosure is made.
- E. B. (172/8).—We cannot say whether the statement on E. B. (172/8).—we cannot say whener the statement on the cough-elixir label is sufficient disclosure of the composition. We suspect that it is not, or, if it is, it is not a straightforward statement as it should be when such a valuable exemption is in question. The statements regarding morphia seem to us to be contradictory.
- J. B. C. (172/66).—SPIRIT-DUTY.—The total amount of Excise duty payable on each gallon of proof spirit is 31s. 6d., this including 1s. 6d. surtax on immature spirit. Under the provisions of the Finance Act, 1918, and the Immature Spirit Act, 1915, 16s. 9d. abatement is made where the spirit is employed in making galenicals which are classed by the Board of Customs and Excise as medicinal. Your local officer of Customs and Excise will supply you with the forms and book of account which you have to fill up in claiming the rebate. in claiming the rebate.
- J. M. (172/63) refers to our reply to the legal inquiry of "W. S. H." (C. & D., September 7, p. 51), and asks whether it is not the person who pays the carriage who, at common law, is the proper person to make the claim against the carrier, and, if the proceedings are unsuccessful, bear the loss, in the event of goods being lost in transit on their way from the seller to the buyer. [As stated in our reply to "W. S. H." it is the consignee who, as a general rule, is tho proper person to make the necessary claim against, and, if necessary, sue, the carriers in the event of goods being lost or damaged in transit. The reason for this is that the seller, if he enters into the contract with the carriers and pays the carriage, is deemed to do so merely as agent for the buyer. The circumstances of a particular case may, however, be such that the seller, and not the consignee, is the proper person to take proceedings against the carriers; as, for example, where the seller agrees to deliver the goods at a particular destination.]

Miscellaneous Inquiries.

When samples are sent particulars should be supplied to us as to their origin, what they are, what they are used for and now. We do not undertake to analyse and report upon proprietary articles nor to publish supposed formulas for them.

S. H. (162/45).—Boot-Polish.—The following is a suitable formula:

Carnauba wax		 4	parts
Ceresin		 40	- ,,
Black Montan wax	***	 4	77
Wool-fat		 2	21
Turpentine oil		 120	,,
Pine oil		 40	,,
Nigrosin, oil-soluble		 3	,,
Lampblack, finest		 2	,,
х.			

W. D. (160/7).—WORM-EATEN FLOOR.—The warehouse floor which has become worm-eaten should be replaced by new wood. Treatment consists in brushing benzene into the holes and then stopping with beeswax or floor-polish; but if the floor is badly affected there is the danger in retaining it that it may give way or affect the joists supporting it.

E. F. W. (237/19).—CINEMATOGRAPH THEATRE PERFUME.—See C. & D., June 23, 1917, p. 56. This is used either as a spray or volatilised from an absorbent cylinder.

Yorkmoor (141/52) and J. S. S. (173/64).—MAXIMUM PRICE FOR STARCH.—Strietly speaking there is no Order of the Ministry of Food regulating either the manufacture or the sale of rice starch, but the manufacture of rice starch is controlled by the Wheat, Rye, and Rice (Restriction) Order, 1917, which prohibits the use of either rice or rice flour, excepting in the manufacture of articles suitable for human food. Hence rice starch can only be made under licence, and one of the conditions is that the price is fixed to the wholesaler and retailer. The maximum retail price is 10d. per lb. for loose starch, and 10½d. in 1-lb. boxes.

Xyla (122/63).—Lemonade Made with Saccharin.—In the manufacture of aërated lemonade a definite quantity of syrup flavoured and acidulated is placed in each bottle or syruhon and then the aërated water added. The problem which the manufacturer wishes you to tackle is to produce a syrup free of sugar. You will find that a solution of 25 to 30 gr. of soluble caccharin in a pint of water produces a liquid of the same degree of sweetness as syr. simpl., B.P. To 10 gals. of this solution add soluble escence of lemon 16 oz., and tartaric-acid solution 25 oz. The last-named solution is made by dissolving 1 lb. of tartaric acid in a pint of water. If the syrup requires a preservative other than the saccharin, salicylic acid—say ½ oz.—may be employed.

Phosphates (137/69).—Tests for Phosphates in Urine.—The qualitative test for phosphates in urine eonsists in adding ammonia, when earthy phosphates are precipitated; filter, and add magnesia mixture to the filtrate, and alkali phosphates are precipitated. The simplest quantitative test eonsists in titrating with standard solution of uranium nitrate, using a solution of potassium ferroeyanide as indicator. The details of the test are given in "Practical Methods of Urine-analysis" (C. & D. Office, 2s. 6d.).

Artist (145/17).—TEMPERA BAINTING.—The surface upon which the painting is done must be free from alkalinity, this being tested by means of litmus or phenolphthalein paper. The surface is then washed with distilled water, and next coated with weak size. The pigments employed are those used for water-colour paintings, the medium being egg-yolk emulsion, size, or prepared white of egg, serving the double purpose of binding together the particles of colour and tho pigment to the ground. Egg-yolk emulsion is egg-yolk diluted with water or a small quantity of prepared white of egg, which is managed by diluting white of egg with water, shaking, and straining through muslin. The prepared white of egg is employed as a medium per se. It is usual to add for the purpose of preservation a little oil of cloves or a small piece of eamphor. The varnish, which is the final step, is made of sandarac and linseed oil.

E. A. R. (172/51).—Books on Prescription Latin.—Bennett's "Medical and Pharmaceutical Latin" (Churchill, 63. 6d.); Ince's "Latin Grammar of Pharmacy" (Baillière, Tindall & Cox, 5s.); Wall's "Elementary Lessons in Latin" (Mosby, 801-7 Metropolitan Building, St. Louis, \$1.50).

Menthol (172/35).—Liquid glueose would probably answer in place of glyeerin in the caseara mixture.

Nicotine (172/55).—Curing Tobacco.—The harvesting process consists in cutting the plants off near the ground with a sharp knife and splitting the stalk from the top half-way to the bottom. The plant is exposed to the sun until it is wilted so that it can be handled without injury. It must then be conveyed to the curing-barn with as little delay as possible. There are different methods of curing, (1) by means of open-fire heat, (2) flue-curing, (3) sun-curing, and (4) air-curing. Flue-curing consists of placing the tobacco in the curing-house and warming the air to 90° F. for two or three hours. The heat is then increased to 125°, or ever higher if the leaf will stand it, and after letting the heat stop at this degree for a few minutes the fires are damped and the heat gradually reduced to 90° F. The fermentation or sweating process which follows is undertaken for the purpose of developing the aroma of the tobacco. The tobacco is stacked in heaps in steam-heated rooms, covered up with canvas, and after a short time fermentation, as evidenced by a rise in temperature, takes place. The temperature must not be allowed to go beyond 150° F., to prevent which the heap is from time to time taken down and rebuilt. Some three to five weeks is occupied by the process. It is during this stage that lower-grade tobaccos are petuned—that is, treated with flavouring ingredients to improve the aroma. Grading and packing follow the curing process.

W, F. (172/67).—Books on Massage.—See C. & D., November 3, 1917, p. 52

B. R. W. (171/12).—Pastille Basis.—The following are two formulas which are employed for the manufacture of pastilles on the dispensing seale:

Bilson's Glyco-gelatin.
French gelatin ... 5viij.
Glyeerin (by weight) ... 5xx.
Tolu water ... 5xx.
Ammoniaeal solution
of earmine ... 5iij. mxij.

Soak the gelatin in the water for two hours, then heat on a water-bath till dissolved, and add the glycerin. The earmine solution is added after removing from the water-bath.

"Art of Pharmacy."

French gelatin ... 5iv.
White sugar ... 5iv.
Glyeerin ... 5iiss.
Water sufficient to
make ... 5xvi

The basis employed on a commercial scale for jujubes consists of gum arabio (32 lb.) and sugar (14 lb.)—the proportion is indicated in parentheses—these being dissolved in 2 gals. of water on a steam-bath. Various colouring-matters and flavourings are added to make the different kinds of jujubes.

W. G. B. (171/69) and A. F. G. (173/14).—Pyrophoric Alloys as used for the striking surface in mechanical lighters consist of about 35 per eent. of iron and 65 per eent of cerium-mixed metals. The eerium-mixed metal is usually obtained by the electrolysis of the molten chlorides, but every precaution has to be taken to exclude air, as the metal is readily oxidisable. Another variety contains a larger proportion of cerium metals, 10 per eent. of magnesium, and 1 per cent of aluminium.

L. S. B. (168/66).—(1) CHOCOLATE.—A mixture of powdered cocoa 6 lb., sugar 10 lb., flavoured with vanilla, can be used in the worm-cake formula. See also C. & D., July 27, p. 52. (2) CELLULOID CEMENT.—Liquid glue made with acetic acid is used in place of acetone for cementing celluloid.

Retrospect of Fifty Years Ago. Reprinted from "The Chemist and Druggist," Sept. 15, 1868.

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Mr. Daniel Hanbury in the course of his Presidential address to the British Pharmaceutical Conference at Norwich said: "The best of theories should be regulated by common sense. But though I am thus advocating the culture of certain medicinal plants, there is a vastly larger number, the culture of which, with a view to profit, it would, I firmly believe, be a delusion to attempt. Drugs already cheap, abundant, good; drugs in small demand: drugs which are comparatively unessential, or well represented by others; those that are only procurable from plants or trees which arrive but slowly at maturity; those which, like sarsaparilla, are only found in regions uninhabitable to civilised man; these, I say, we can afford to let remain products of the forest, some of them to disappear before the axe of the colonist, a few to hold their places in the interstices of cultivation, as the companions of more important and useful plants."

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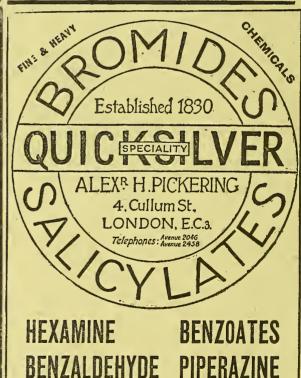
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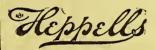
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OFFICES: 42 CANNON STREET. LONDON, E.C.4

SEPTEMBER 14, 1918

Advertisements for this Supplement must be received not later than First Post on Thursday Morning.

CHEMISTS' TRANSFERS. Messrs. ORRIDGE & CO., 56 Ludgate Hill, E.C.

May be consulted at their Offices on matters of SALE, PURCHASE, and VALUATION.

1.—PARK LANE (Near).—Dispensing and Retail Business; held by vendor upwards of 30 years, now retiring from the Drug trade; returns £1,290; gross profit about £700; proof given; lock-up Pharmacy; moderate rental; valuation terms entertained; excellent opportunity for a Chemist with West-End experience.

2.—LONDON, N.W.—An exceptionally good and reliable Business in residential locality; returns, present rate, £30 per week; gross profit about one-third; rent £50; no near opposition; price £350 for speedy transfer.

3.—KING'S CROSS STATION (Near).—Ready-money Business, situate in main shopping thoroughfare; under management for some while; can be easily increased; returns between £1,000 and £1,100; net profit £300; net rental 15s. weekly; price about £450.

about £450.

4.—KENT (Nice Locality, Few Miles from Town).—Retail, Family, and Dispensing Business; steadily increasing; returns now about £1,500 at fair prices; price, to include £90 book debts, £750; part payment.

5.—WEST END (Tcn Minutes From).—Good middle-class Retail and Dispensing Business for sale; vendor retiring; returns show a steady increase, and are now between £2,200 and £2,300; net profit £600; proof given; well-appointed shop and roomy house; valuation terms entertained.

—EINSPURY PARK (Near)—Coch Retail Business and over

6.—FINSBURY PARK (Near).—Cash Retail Business and own Proprietaries; position is exceptionally good, and the returns can be much increased; present rate about £1,200; owing to a breakdown in health an immediate sale must be effected; terms, valuation of stock and fixtures.

7.—HITHER GREEN.—For immediate disposal, ready-money Retail; returns average over £500 per annum; net profit £250;

comfortable residence; rent £46; on lease; no near opposition; first reasonable offer will be accepted, say about £200.

8.—GLOUCESTERSHIRE.—Well-established Business; returns between £1,600 and £1,700; good corner position in one of the main streets; large roomy house with private entrance; nice garden and greenhouse; price about £1,000.

9.—HOME COUNTY.—For disposed, through ill-health, good-class Retail and Dispensing Business, situate in charming country district; returns between £1,700 and £1,800; profits above the average of Retail trade; stock and fixtures estimated at £900; price, to include everything, £1,200.

10.—YORKS.—Middle-class Retail; no side lines except a little Optical; N.H.I. could be added to advantage; returns last year between £950 and £1,000; net profit about £550; double-fronted shop; comfortable residence attached; rent £35; price £325, or near offer for quick sale; ill-health cause of transfer.

11.—PORTSMOUTH (Death Vacancy).—Ready-money Business; main road position; returns last year about £2,500; well-fitted shop and ample stock; terms, valuation of stock and fixtures; a lease will be granted or property may be purchased.

12.—MIDLANDS (Vendor Retiring).—Good-class Dispensing and Retail Business; excellent situation; returns exceed £2,000 per annum; handsomely fitted shop, and good residence with private entrance; books properly kept, and periodical stocktaking; valuation of stock and fixtures, and sum for goodwill to be agreed.

13.—GREAT CENTRAI, MAIN LINE (Few Miles Out).—Good-class Dispensing and Retail Business, situate in good country district; returns, present rate, upwards of £4,000; terms, valuation of stock and fixtures, and sum for goodwill to be agreed.

14.—HANTS (Yanting Centre).—Ready-moncy Business; returns upwards of £600; scope for development; rent moderate; price about £500.

VALUATIONS FOR STOCKTAKING.

Messrs. O. & Co. desire to emphasize the necessity of a Periodical Statement of Account, by which means alone Profit, the value of Business, &c., can be determined. Involving as this does the labour of Stocktaking and Valuation, it is often omitted, and eventually becomes the cause of confusion and loss.

Messrs. O. & Co. are prepared to undertake these essential duties, and will make Special Terms for such services.

ORRIDGE & CO., 56 LUDGATE HILL, LONDON, E.C.

BUSINESSES FOR DISPOSAL.

3s. 6d. for 50 words or less; 6d. for every 10 words or less beyond, prepald.

LONDON, S.E.—Net profit £250; commanding position; no opposition; corner; comfortable house; retail business; several Proprietary articles included; at present being carried on as a Drug Store; only qualified man doing Panel could increase profit to £350; lease or otherwise; all at, £250. Edwardes, 43 Margravine Gardens, London, W. 6.

L ONDON SUBURB, N.E.—Progressive Cash Retail; last year's returns £1.600; rent £42; established 17 years; no N.H.I.; price £550. Address "H." (4/26), Office of this Paper.

GOOD-CLASS London suburb; present returns about £1,400; good prices; good stock; satisfactory lease; established over 30 years; steadily increasing; anyone with about £600 at command may obtain a sound reliable business; references must be given before particulars are furnished. Apply 269/13, Office of this Paper.

WHOLESALE Manufacturing Business of Toilet preparations for disposal; turnover £3,000 (could be doubled); orders on hand £2,500; good reasons for disposal; price £1,200, including stock, goodwill, trade secrets, etc.; near London. Apply 2/32, Office of this Paper.

LEGAL.

Re BENJAMIN G. K. CLARKE (Deceased),
6 BLADUD BUILDINGS, BATH,
NOTICE IS HEREBY GIVEN that all creditors and other
persons having any debts, claims, or demands upon or
against the Estate of BENJAMIN G. K. CLARKE, Chemist, late
of 6 Bladud Buildings, Bath, are hereby required to send particulars in writing of their debts claims or demands to me the
undersigned on or before the 50th day of September, 1918.

Dated 31st August, 1918.

BOUGLAS P. HATT, F.A.I.,
Auctioneer and Valuer,
3 Burton Street Bath

3 Burton Street, Bath.

FOR SALE.

A BOUT 1 cwt. Sheet Rubber ($\frac{1}{8}$), suitable for laboratory, £5 10s.; four liquid chemical Fire Extinguishers, 15s. each (guaranteed perfect order); three Tables, 9' × 5', £1 10s. each. 15 Addison Avenue, Holland Park, W.

ROR disposal, 2 Acid Proof Stoneware Filters, 5 ft. high, capacity 90 gallons. Mortimer, Chemist, Harrogate.

 $F^{\rm OR}$ SALE, Mixer; very strong; open-type bladed mixer; size of mixing-pan 4 ft. 6" \times 2 ft. 6" \times 2 ft. 6"; perfect order. 280/8, Office of this Paper.

FOR Sale, massive Showcase (10 ft. high by 9 ft. broad by 2 ft. deep), 10 shelves, real solid malogany, cost £96 prewar, sacrifice £50; also 400 Shop Rounds, 40, 20, 10 oz. white, gold labels (good condition); also 20 Blue, 10 Pink, 4-lb. Jars, Dome tops. What offers? James, 13 Crownhill Road, Harlesden, N.W. 10.

GUM Tragacanth Opt., 8s. 6d. lb.; Acid Citric Crystals, 3s. 9d. Ulb.; Sodii Salicyl., 7s. 3d. lb.; Podoph. Resin., 4 oz., 8s. 6d.; Quinine Hydroch., 4 oz., 16s.; Ol. Neroli Super., 18s. oz.; Ol. Foeniculi Dulc., 20s. lb.; Ol. Carui. Ang., 28s. lb.; Exot., 24s.; Ol. Bergamot Super., 23s. lb.; Phenacetin, 8 oz., 14s.; Hexamine, 10s. lb.; 1,000 Parke Davis Tab. Calomel., gr. v., 15s.; ditto Cascara, 18s.; Tabloid Sulphonal, gr. v., 3 × 100, 18s.; Syrup Coelllana Co., 6s. lb.; Ferri et Quin. Cit., Pale, 15s. lb.; Coumarin, 14s. oz.; Vanillin, 4 oz., £1; Caffein Pure, 3s. 6d.; Citras., 2s. 9d. oz.; Phenolphthalein, 2 oz., 8s.; 3 oz. Brilliantine Green, 12s.; Medinol, 9s. oz.; Trional, 6s. oz.; Calomel, 7s. lb.; Atropine Sulph., ½ oz., 40s.; post paid. Forryan, 40 Duncan Road, Leicester.

L OZENGE MIXER, fitted with gun-metal blades and non-rusting body; capacity about 2½ cwt.; in new condition. 280/801, Office of this Paper.

MIXER, by Peter Kupper, Leipsig; open type; size of mixing-pan; 2 ft. 4" × 2 ft. 4" × 2 ft. 6" deep. 280/802, Office of this Paper.

BRETT & CO.

Transfer Agents and Valuers, 73 LAUREL ROAD, LEICESTER.

Telegrams: "Brett Leicester."

Telephone 1934.

F. J. BRETT, M.P.S.,

Gives personal attention to all valuations.

Valuations conducted upon the shortest notice at moderate fees.

VALUERS & TRANSFER AGENTS

35 Jewry Street, Fenchurch Street, E.C.3. Telephone: 1809 CENTRAL.

NO CHARGE TO PURCHASERS.

-SOUTH COAST .- First-class Retail and Dispensing Business;

1.—SOUTH COAST.—First-class Retail and Dispensing Business; in same hands many years; retiring; returns about £900; commanding position; plenty of scope in energetic hands; attractive Pharmacy; well stocked; price simply valuation; no goodwill.

2.—OXON (Death Vacancy).—Old-established good-class country Business in centre of large agricultural district; quite unopposed; returns £1,350; net profit £367; good house and garden; well stocked shop; price about £900.

3.—LANCS.—Sound Cash Retail, within three miles of Bury; present returns about £1,000; no panel; wine licence; very low rent; same hands many years; population 7,000; good chance for smart man; price £400, or offer.

4.—CITY (Death Vacancy).—High-class Dispensing and Retail in splendid position; returns average about £50 weekly under management; plenty of scope; price for quick sale simply valuation, about £650.

5.—SOUTH LONDON (Close to City).—Brisk Cash Business for disposal; returns nearly £40 a week; good profits; spleudid corner position in busy main road; fully stocked; good modern premises; price £1,000; could arrange entry with £600 cash.

6.—LONDON, S.W.—Good-class Retail and Dispensing Business, in fine position, close to busy station; returns £1,000; no panel; olear net profit over £300; books properly kept; scope for increase, owner retiring; price £450; part could remain; strongly recommended.

7.—LONDON, W.C.—Profitable Cash Retail, increasing; returns,

recommended.
7.—LONDON, W.C.—Profitable Cash Retail, increasing; returns, under Manager, £1,050; net profit £300; low rent; good position and well stocked; price £450.
8.—LONDON SUBURB, S.E.—Well-established Cash Retail; very profitable, and scope for increase; returns £540 under Manager; net profit £250; price £300, about value of stock and fixtures.

STOCKTAKINGS.

We are now booking dates for October, and appointments should be made early to avoid dates clashing. Terms sent on application. 45 years' practical experience.

BUSINESSES WANTED.

A GOOD Business wanted in Manchester or district; must be thoroughly genuine and bear the strictest investigation. Please give full particulars, in confidence, to 5/13, Office of this

PHARMACEUTICAL Chemist, with small capital, wishes to purchase suitable Business (Wholesale or Retail) on the following terms: £100 down, the remainder by instalments. Advertiser to act as Manager. Business must be capable of large increase, and must have manufacturing facilities attached. Apply \$\frac{3}{28}\$ Office of this Paper. 3/28, Office of this Paper.

PHARMACIST requires a Business; London or country; returns about £900. Full particulars, in confidence, "Beckwith" (4/21), Office of this Paper.

QUALIFIED Chemist wishes to purchase interest in cstablished Proprietary or allied Businesss. Full particulars to 3/13, Office of this Paper.

RECENTLY closed Chemist Shop wanted in respectable neighbourhood; S.E. suburb preferred, not essential. Address "Gentian" (2/31), Office of this Paper.

WANTED, a neglected Business, centrally situated in a good industrial or agricultural town. State full particulars and price (replies in confidence) to "Chemist" (4/24), Office of this Paper.

WANTED to purchase for cash, Soap Manufacturing, Perfumery, Chemical, or similar business; replies treated in strict confidence. Apply 176/27, Office of this Paper.

SALES BY AUCTION.

THURSDAY NEXT, AT 12.30.

SALE OF CHEMIST'S SUNDRIES, including Surgical Instruments and Hospital Appliances, Trusses, Whirling Sprays and Syringes, Rubber Sponges, Surgeons' and Household Rubber Gloves, 200 gross Transparent Feeding Bottle Teats and Soothers, 84 dozen Bone Riugs and Stems for Soothers, Clinical Thermometers, Drop Tubes, Rubber Ice Bags, Bed Sheetings, Enemas, Bathing Caps, Suspensory Bandages, Elastic Hosiery, 2,000 small Wooden Boxes, Combs and Slides, Hair Brushes, Nail and Tooth Brushes, Safety Razors, and other Chemist's Sundries.

FRYETT, WHITE & CO. (Successors) . will Sell at the MOORGATE AUCTION ROOMS, LTD., 23 and 25 Moorfields, E.C.

AGENCIES.

A DVERTISER, having offices in London and good connection among Druggists, Wholesale and Retail, in the provinces, wishes to negotiate for the buying agency of a good selling article. Reply, in confidence, to 168/59, Office of this Paper.

MANUFACTURERS' Agent and Salesman, now discharged from Army, wishes to get into touch with firms able to make deliveries of Live Lines; first-class credentials. Apply 2/5, Office of this Paper.

PECIALTY Salesman seeks Agencies from Live firms; first-class experience; London and Provinces. Apply 2/50, Office

SUGAR SUBSTITUTE.—Agents wanted; London and suburbs, Southern Counties, Wales, Western Counties, Channel Islands. Sweetleaf, 104 High Holborn, W.C. 1.

TO LET.

To Let, Rooms over Pharmacy; excellent commanding corner premises; trams and 'buses pass all ways; suitable for Dentist; modera Street, Hackney. Apply The Old Pharmacy, 344 Mare moderate rent.

SITUATIONS OPEN.

RETAIL.

BATH.—Davies & John, Chemists, have a vacancy for reliable Assistant with good experience; must be well recommended. Full particulars in first letter to Mr. John.

BRIGHTON.—Wanted (at once), competent Assistant for brisk Light Retail; no N.H.I., and no packing of Stock, etc.; moderate hours; comfortable permanent position, with good prospects; good salary. Stead, 23 Duke Street, Brighton.

BRIGHTON. IGHTON.—Assistant Manager wanted (qualified) for Light Dispensing and Retail. Salary, etc., 6/19. Office of this

PRISTOL.—Spracketts, Shipping and Retail Chemists, Tramways Centre, have a vacancy for a smart unqualified Assistant; easy hours; partly outdoors; no Sunday duty; necessary occupation; good salary and prospects for suitable man. Apply, giving full particulars as to salary, etc., and enclose photo.

CAMBRIDGE.—Lady Assistant (Hall) required for good-class Dispensing business. State salary, etc., S. F. Barker, 46 Chesterton Road, Cambridge.

CARDIFF.—Outdoor Counter Assistant required immediately; £2 10s. weekly and commission to suitable man. Duck & Son, St. John's Square.

EALING.—Manager; accustomed to good-class family business; liberal salary. Sanguinetti & Harding, 120 Uxbridge Road, West Ealing, W. 13. 'Phone Ealing 727.

GODALMING.—Junior Assistant; unqualified; ineligible for Army; capable Dispenser. State full particulars and salary required (outdoors), Mather, Pharmacist, Godalming.

GUY'S HOSPITAL, S.E. 1.—Locum required (at once) for about six weeks; Minor qualifications. Apply, giving full particulars, to the Acting Pharmacist.

HAMPSHIRE.—Wanted, unqualified Assistant, any age, lady or gentleman, for a good-class Dispensing business in beautiful part of Hampshire, near military camp; good experience essential; permanency; salary £150 a year; outdoors; satisfactory references needed; cost of living moderate. Apply J. Keeble, Chemist, Liss, near Petersfield.

HAVERHILL, SUFFOLK.—Wanted, a qualified Assistant for Country Business; light duties, easy hours; every encouragement to elderly or partially disabled if reliable. Full particulars, J. Shearman, Chemist, 156 King Street, Great Yarmouth. mouth.

HULL.-Wanted, Assistant (outdoors); used to good-class Retail and Dispensing business. Send full particulars, age, reference, and salary required, S. T. Kirton, Chemist, 53 Savile Street,

EEDS.—Qualified Assistant, lady, or gentleman if ineligible, I in second position in Retail and Dispensing department. ate age, experience, salary required, Reynolds & Branson, Ltd., Lecds.

SEPTEMBER 14, 1918

L ONDON.—Wanted, qualified elderly man or disabled soldier, to assist in Dispensing for about 36 hours a week; dinner and tea provided. Apply "M. C." (4/19), Office of this Paper.

ONDON HOSPITAL, WHITECHAPEL ROAD, E.—Dispenser wanted; lady or gentleman (if ineligible for military service); Minor qualification; hours 9 a.m. till 5 p.m., with occasional late duty; commencing salary £150. Apply to the Phar-

I ONDON, N.—Unqualified, discharged or incligible, for Cash Retail and Dispensing; outdoors. State full particulars and salary required, or eall, "H.," 35 Junction Road, N. 19.

ONDON, N.E.—Qualified elderly or lady Pharmacist required.

Also unqualified. Also Manager for branch, with view to succession, or easy terms if desired. Apply "Chemist" (5/1), auccession

ONDON, N.W.-LONDON, N.W.—Wanted, lady Assistant, experienced, for Drug Store near King's Cross; no Poisons or Dispensing. Apply Grant's Drng Stores, 33 Chatsworth Road, Clapton Park, N.E.

LONDON, S.E.—Qualified Chemist, lady or gentleman, as Manager; Dispensing department; capable and accurate. Apply, stating references, salary, etc., Chemist, 77 High Street, Croydon.

ONDON, S.W.—Experienced Assistant required; accurate Dispenser; good general knowledge of middle-class business; N.H.I.; outdoors. Apply Lloyd, St. John's Hill, Clapham Junction.

ONDON, S.W.—Competent Assistant for Dispensing Counter; no N.H.I.; short hours, no Sunday or Bank Heliday duty; personal application preferred. All full particulars to Manager, Drug Department, Messrs. Francis & Son, Ltd., 448 Brixton Road,

LONDON, W.—Junior Assistant on September 30th (lady or gentleman); outdoors; hours 8.30 to 7. Reply, stating usual particulars, to "M." (175/36), Office of this Paper.

MANCHESTER (Near).—Wanted, unqualified Junior Assistant for Dispensing and Counter; National Insurance. Full particulars, with salary required, J. Braddock, Chemist, Hadfield.

MANCHESTER.—Lady Pharmacist and two unqualified lady Assistants required; comfortable berth. Please apply with full particulars, so as to save time, to C. H. Griffiths, Ltd.,

MARGATE.—Assistant; qualified or unqualified; ineligible, Kindly state usual particulars and salary required (outdoors) to D. T. Evans, Chemist, Margate.

MIDLANDS.—Qualified Assistant required in good-class Business situated in residential neighbourhood; this is a good position for the right man. State full particulars and salary required to 1/25, Office of this Paper.

MIDLANDS.—Wanted for good-class business, lady Assistant with general and Dispensing experience; easy hours, no Sunday duty. Apply with full particulars, stating age, experience, and salary required (interview in London will be arranged for Monday, September 16th), 4/10, Office of this Paper.

ORMSKIRK, NEAR LIVERPOOL.—Wanted, capable lady or gentleman Assistant (outdoors) in good-class country business; two other Assistants kept. Apply, giving full particulars, to Garsides, Ltd., Ormskirk.

SHREWSBURY.—An Assistant wanted for good-class Business with light Dispensing; permanency.

J. E. Henshaw, with light Dispension 23 Wyle Cop, Shrewsbury.

SOUTH OF ENGLAND.—Assistant required (mede or female); free removal; permanency with good salary. Timothy White Co., Ltd., Chemists, Portsmouth.

OUTH SHIELDS.—Wanted, qualified Assistant (ineligible) for Manufacturing and Dispensing, with good knowledge of Counter trade. Full particulars as to salary, with references, to Mason & Co., Ltd., Store Chemists, 80 King Street, South Shields.

SOUTHSEA.—Lady Assistant required, chiefly for Dispensing, with Hall qualification or other experience; outdoors. Apply, giving usual particulars and salary required, etc., Arnold & Sons, Southsea Pharmacy.

SOUTHAMPTON.—Junior Assistant required for a Light Retail business in a pleasant suburb; reasonable hours; time for study; outdoors. Apply, stating experience and salary required, to P. G. Eley, Shirley Road, Southampton.

SOUTHAMPTON.—Assistant wauted; age 22 to 34; accustomed to smart Retail Business with Photography; wages commencing £4 a week. Apply Martin, Chemist, Southampton.

SOUTHAMPTON.—Experienced lady Assistant required for good-class Retail and Dispensing business in pleasant residential neighbourhood; ontdoors. Full particulars and salary required to W. Riddle, Cobden Bridge Pharmacy, Bitterne Park, South-

STREATHAM, S.W.—Lady Assistant; light work; short hours; no Sunday duty; progressive salary according to experience; with or without Hall certificate. Please give full particulars, photo, references, etc., or apply personally, "P.," H. T. Escritt, 284 Streatham High Road, S.W. 16.

WANSEA.-J. T. Davies (Chemists), Ltd., require a smart Junior Assistant; unqualified; outdoors; high-class business.

WEST OF ENGLAND.—Wanted, Assistant Dispenser, lady recently qualified would do, to take secend place at Dispensing Counter, price Prescriptions, and do Clerical work. Please give full particulars, with salary required and experience, if any, to 4/8, Office of this Paper.

WEST RIDING.—Young lady Assistant required for Light Retail and Dispensing business; comfortable permanency. State age, Dispensing experience, and when at liberty, "W. R." (3/100), Office of this Paper.

WESTCLIFF ON SEA. - Assistant wanted, chiefly for Dispensing VV outdoors; easy hours. Apply, stating required, etc., to 4/23, Office of this Paper stating experience,

WEYBRIDGE.—Lady Dispenser required (outdoors); good-class business. Full particulars, experience, salary, etc., to Amos & Ashworth, Church Street.

A SSISTANT required, lady or gentleman (incligible or discharged), at once for good-class country Retail and Dispensing business; easy hours. Apply, stating age, references, and salary required (outdoors), W. G. Bedley, Four Caks, Sutton Coddfeld.

A SSISTANT; qualified; temporarily, 2 or 3 weeks, or longer if showed capability of taking charge; no Sunday work; half holiday; state salary and give references. Johnson, Chemist,

A SSISTANT, junior, of gentlemanly appearance and address, required (at once) for good-class Retail and Dispensing business; quick Counter trade; must be a good Window-dresser and abstainer. Full particulars, salary required, etc., and photo in first letter, to Hay & Co, Chemists, Gosforth-on-Tyne.

A SSISTANT for brisk Retail and Dispensing business; good salary and prospects to a suitable man. Packer, Seaford,

A SSISTANT wanted (temporarily); outdoors; good Dispensing experience essential. Apply, with full particulars, stating salary required, to J. G. Gould & Co., 23 North Audley Street,

A SSISTANT; outdoor (lady or gentleman); whole or part time; knowledge of Dispensing and Retail; no N.H.I. work. Apply G. W. G. Robinson, M.P.S., 307 Railton Road, Herne Hill, S.E. 24.

A SSISTANT Dispenser (woman, adequately qualified) required immediately for the Elizabeth Garrett Anderson Hospital, Euston Road, N.W. 1. Particulars of appointment can be obtained from the Secretary, to whom applications should be sent in at once. Imagen H. Murphy, Secretary.

BRANCH Manager; qualified; lady or gentleman; easy compact shop. Apply, giving usual particulars, salary required, and recent references, to E. J. Latham, M.P.S., Shirebrook, Derby-

CAPABLE qualified or unqualified Senior Assistant wanted (at once) for good-class Retail and Dispensing business; backelor (young) preferred, but lady not objected to; good salary; easy hours; three Assistants kept. State age, experience, salary required, and when disengaged, Kuight & Crofts, Pharmaeists, Hinckley.

CHEMIST'S Assistant (unregistered) required; a geed opportunity occurs for an Assistant who is dissatisfied with his position; if you are faced by the hopeless outlook and future of a Drug Company or the long hours of an old-fashioned Chemists, write at once to 4/17, Office of this Paper, and you will be informed of a good chance for a smart man.

CHEMIST, qualified Manager, over military age or rejected, required for first-class business in the provinces; splendid opportunity for capable and energetic man. Apply, stating age, salary, and experience, to 175/50, Office of this Paper.

ISPENSER (qualified); thoroughly experienced man required; Jourdoors; permanency; Wednesdays till 1. Write, giving fullest details of previous experience, references, and salary required, to Mr. J. R. Craig, Chemistry Department, 17 and 19 Union Street, Aldershot.

DISPENSER wanted; experienced in high-class Dispensing; no N.H.I. outdoors; hours of business 8.50 to 6. Mr. Lewis, Chemist, Ealing, W. 5.

DISPENSER (at once); Minor quantification; part-time applicant would be considered. Apply Acting Pharmacist, Guy's

JUNIOR Assistant, unqualified, with Counter experience, for Light Retail and Dispensing business. Apply S. W. Dawson, 56 Kuights Hill, West Norwood, S.E.

ADY Assistant; comfortable situation; easy hours. Full par-ticulars, Blaker, Chemist, Hindhead, Surrey.

ADY Assistant, active and intelligent, mainly for Dispensing; some shop experience essential; Central London; outdoors; easy hours. Frizell & Co., 1 Cranbourn Street, W.C. 2.

LADY Assistant required; accustomed to first-class Dispensing and Retail; outdoors; reasonable hours; other ladies employed. G. Peek & Son, Pharmaceutical Chemists, Cambridge.

LADY Assistant or Improver; nice shop; good-class business; no Sunday duty. Please state full particulars as to age, experience, salary required, when disengaged, Foster, 32 West Street, Fareham, Hants.

LADY Chemist required for branch in good residential and market town in Cumberland; close to sea and lakes; easy hours, no Sunday duty. Full particulars, with salary required, to Chemist, P.O. Box 141, Leeds.

ADY Dispenser required (Hall qualification) for good-class business. State salary and usual particulars to H. Hocken, 33 Station Road, Redhill, Surrey.

DY Dispenser wanted for good-class business; progressive salary to a competent person; must be quick, accurate, and qualification not essential. State full particulars as to age, ous experience, salary required, when disengaged, Chater, previous experience, sala. The Chemists of Watford.

ADY, qualified or unqualified, for Counter and Light Dispensing; a competent Window-dresser would be preferred; short hours. J. E. Henshaw, 23 Wyle Cop, Shrewsbury.

OCUM required (end of September or early October); £5 per week; fare oue way. "Chemicus," 26 Heanor Road, Ilkeston, Notts.

LOCUM required for two or three weeks; September-October working-class business. Give references and state salary required to J. F. Wilkinson, 129 Ferham Road, Rotherham.

MANAGER required for branch; Light Retail good class; must be qualified, energetic; commission given on increased business. Apply, stating salary required and usual particulars, to T. G. Stewart, 1 Church Road, Bracknell.

MANAGER WANTED.—Qualified Branch Mauager for first-class Retail, Dispensing, and Photographic; healthy London suburb; outdoors; good prospects and permanency for capable and reliable gentleman. Give full particulars, including salary required, 3/9, Office of this Paper.

M ANAGING Assistant required within next three weeks for good-class business in manufacturing district; opportunity would be offered to suitable qualified man for acquiring share of business on easy terms. Apply, stating age, salary required, etc., 175/56, Office of this Paper.

MESSRS. TIMOTHY WHITE CO., LTD., Chemists, Portseasy hours; good and progressive salary, with excellent prospects; free removal.

QUALIFIED (outdoors); near City; hours 9-7.30, Thursdays 1; no N.H.I.; uo Sunday duty; permanency; state age, experience, salary required, and when disengaged. Also Locum for about two weeks. Apply to "A. B." (3/1), Office of this Paper.

QUALIFIED Assistant, lady or gentleman (if latter ineligible), for Dispensing Counter. Apply, giving full particulars of previous experience, to Roberts & Co., 76 New Bond Street, W. 1.

QUALIFIED Assistant; male or female; outdoors. Apply, stating age, experience, and salary required, to L. Cameron, Pharmaceutical Chemist, Seaford, Sussex.

QUALIFIED lady Dispenser and Bookkeeper required by Doctor; East Coast; state age, experience, and salary required (outdoors). Apply 3/6, Office of this Paper.

QUALIFIED Dispenser for Saturday afternoons and two evenings weekly. Dyson & Co., 35 Gloucester Road, S.W. 7.

QUALIFIED Branch Manager required, ineligible, with know-ledge of Photography; good salary and commission to good man; references must bear strictest investigation. Apply "Pro-gress" (176/53), Office of this Paper.

 $\mathbf{P}_{\mathrm{Little ED}}$, for end of September, a fully-qualified Assistant; lady or gentleman; discharged or over military age. Apply with full particulars, stating salary, etc., to Longman, Chemist, Littlehampton.

REQUIRED, Dispenser, lady or gentleman, in large West-End house; Minor qualifications preferred; competent, and good experience necessary; hours of work 8.45 to 6 o'clock, 1 o'clock Saturdays, no Sunday duty. 'Apply, full particulars of past experience and salary required, to Manager, Drug Department, Army and Navy Stores, 105 Victoria Street, S.W. 1.

REQUIRED, lady Assistant for Front Counter in a large West-End establishment, with good knowledge of Drugs and Toilet articles; good salary and commission on sales. Apply personally, or by letter, to Manager, Drug Department, Army and Navy Stores, 105 Victoria Street, S.W. 1.

SAVORY & MOORE require a lady Clerk with good knowledge of bookkeeping, and preferably with experience of the Drug trade. Apply with full particulars, and stating salary required, to Manager, 143 New Boud Street, W. 1.

STEELE & MARSH, Dispensing Chemists, 6 Milsom Street, Bath, require an Assistant Dispenser with good experience, Apply, with full particulars of experience, etc., to David A. Apply, with Evans, M.P.S.

SURGICAL INSTRUMENT BUSINESS.—Assistant for Shop Counter; state age, other duties accustomed to, and wages expected. Reply "Surgical," Lee & Nightingale, Liverpool.

TUPHOLME & SON, Earl's Court, require a good-class Dispenser; can sleep in. Full particulars to 1 Coleherne Terrace, 8.W. 5.

UNQUALIFIED Assistant, with good experience in the Retail, required for the Stocktakers' department of a large firm of Chemis's (Retail); single man preferred; permanency, with excellent prospects. Apply 3/10, Office of this Paper.

UNQUALIFIED Assistant wanted for a few weeks. Please state age, experience, and salary required (indoors or outdoors), E. Sawyer, Pharmacist, Southwold.

NQUALIFIED Assistant and Dispenser wanted; must be ineligible for military service; salary and commission. Apply "Business" (176/530), Office of this Paper.

WANTED, Locum for three weeks from about the 23rd of September. L. Arden, Pharmaceutical Chemist, Winchester.

WANTED, an Assistant with good general experience; four or five evenings weekly. Write or call, R. Banbury, 186 Lavender Hill, S.W. 11.

WANTED, lady Dispenser and Bookkeeper by Doctor in Mid-iands; hours approximately 9-12, 2-3, 6-8; state age, ex-perience, and salary required, send photo. Apply 2/37, Office

WANTED, lady Dispenser-Bookkeeper in North London suburb.
Apply, giving full particulars, salary required, etc., to Dr.
Mailer, 86 Alexandra Park Road, Muswell Hill, N. 10.

WANTED, unqualified Assistant; ineligible; quick Counterman; able to Dispense if necessary; hours 9 to 8, Saturdays 9, Thursdays 1; alternate Sunday duty 6 to 8; state salary required. "Staffordshire" (281/30), Office of this Paper.

WANTED by the Gilfach Goch Medical Scheme, lady Dispenser. Apply, giving particulars, to Secretary, Brynteg. Gilfach Goch, Glam.

WANTED, qualified Manager for good-class suburban business; good Counterman and Prescriber; permanent berth; no N.H.I. Apply, stating salary and age, Northwood, 246 Lewisham High Road, London, S.E.

WANTED, Assistant; male or female; outdoors; unqualified; incligible or of low category. Apply, stating age, experience, and salary expected (no Sunday duty), to Cooper, Pharmacist,

WANTED, Junior Assistant (male or female). Apply, giving references and stating salary, etc., to Thomas Bell, Amble-

WANTED, qualified Manager (immediately). Apply, giving full particulars and salary required, to Mrs. J. A. Bryden, 73 Kent Street, Barrow-in-Furness.

WHOLESALE.

LFORD.—Howards & Sons, Ltd., require an Entering Clerk (discharged or ineligible man) or a lady Clerk; experience necessary; permanent post.

FINISHER required for Bottling department; discharged soldier would be suitable. Apply Stevenson & Howell, 95a South-

ABORATORY.—Assistants wanted for Chemical and Pharmaceutical work; must have had some Chemical and good Pharmaceutical experience; ineligible; unqualified; salary £100 per annum Apply Box No. 627, Smith's Advertising Agency, Ltd., 100 Fleet Street, E.C. 4.

ADY Invoice Clerk wanted. State experience and wages required, Gale & Co., 15 Bouverie Street, E.C. 4.

ADY, with Chemical knowledge, Hall qualification preferred, to assist in Works Laboratory at Stratford, London; pernanency. Write, stating age, experience, and salary required, o Z. W., 620, care Deacon's, Leadenhall Street, E.C. 3. manency. to Z. W.,

to Z. W.. 620, care Deacon's, Leadenhall Street, E.C. 3.

ADY Chemist, qualified, with good organising ability and capacity, to control a staff of girl workers, to supervise the Pharmaceutical packed goods department of a firm of Manufacturing Chemists on the South Coast; preference given to applicant who has had both good-class Retail as well as Wholesale experience; the post offers excellent prospects of advancement. Apply, stating age, experience, salary required, and other particulars, to 161/6. Office of this Paper.

DACKERS wanted for bottled and tin goods. Apply, giving references and wages required, to "Sanitas" Co., Ltd., Locksley Street, E. 14.

TABLET Maker or Granulator wanted; Liverpool; permanent post; good salary. Apply 137/18. Office of this Paper.

TABLET Maker and Granulator required by London Manufacturing Chemists. State age, salary, experience, etc., to 169/13. Office of this Paper.

WANTED (at once), experienced (ineligible) Drughouse Counterman for Wets and Drys. State experience, age, salary required, and references, to Wm. Hay, Ltd., 42-46 Walmsley Street, Hull.

WANTED, Chalk Block-maker; Rouge Block-making, etc.; competent man required. Apply Barron, 155 and 157 Oxford Street, London, W.

WANTED, experienced Tablet Machinist. Apply W. B. Cartwirtht. Ltd., Tablet Makers, Rawdon, near Leeds.

WORKS Manager (ineligible) for Spice and Drug Grinders' and Drysalters' Warehouse, to generally overlook staff and to organise the preparation and dispatch of goods; knowledge of Canned Goods. Spices, Cereals, and Bakers' and Confectionery Chemicals essential; knowledge of Spice Grinding Machinery preferred, but not essential. Apply by letter, giving full particulars of age, present and past occupation, salary required, and whether disengaged. Address envelope, "Manager," c/o Pratt & Co., 57 Market Street, Manchester.

WAREHOUSEMAN required, Manufacturing Chemists' Bottle Store; also man for Wet Counter. Apply personally, or by letter, Stevenson & Howell, Ltd., 95a Southwark Street.

WET and Dry Counterman wanted at once. Apply Willows, Francis, Butler & Thompson, Ltd., 40 Aldersgate Street,

SITUATIONS OPEN.

(Colonial, Indian and Foreign.)

PLORENCE, ITALY.—Experienced, qualified lady Pharmacist required for Dispensing; must be neat and orderly; preference given to one able and willing to help in Counter work if necessary; previous continental experience not essential; travelling expenses paid. State salary expected and enclose photo. H. Roberts & Co., British and Foreign Chemists, Florence.

JAPAN.—Wanted immediately, an Assistant (qualified preferred) in a first-class Chemist's business at Kobe; easy hours; four years' contract; passage paid out and home; must be ineligible for the Army. Send for full particulars, with photo, to J. W. Franklin, 28 Alleyn Road, London, S.E. 21.

PARIS.—Competent Dispenser; qualified preferred; male or female; outdoors; no Sunday duty. Write, giving particulars of age, experience and salary required, and enclose photo if possible, Roberts & Co., 5 Rue de la Paix. Paris.

SINGAPORE.—Wanted (immediately), qualified Assistant; young; single; ineligible Army; three years' engagement; monthly salary of \$250, \$275, and \$500 (\$1 equivalent to two shillings and fourpence sterling); passage paid out and home. Full particulars from Downie, 187 Gairbraid Street, Glasgow.

SITUATIONS WANTED,

1s. for 12 words or less; 6d. for every 10 words or less beyond, prepaid.

[HOME.]

RETAIL.

AS Locum; permanency; reasonable terms; excellent experience as Manager or Managing Assistant. "Chemist," 47 Wilton Avenue, Southampton.

DISPENSER; Apothecaries' Hall; part-time; fluent French; West-End experience; date arranged. Write "Advance" (3/31), Office of this Paper.

DISPENSER (Hall), good experience, desires part-time post; free three days a week, and every evening; disengaged end of month; no Counter.

Green, N.W. 4.

D^{ISPENSER,} Hall, experienced, desires locums; Institutions preferred. 4 Belmont Grove, Leeds.

DISPENSER, lady, Hall qualification, seeks post; with Doctor preferred. Apply 5/2, Office of this Paper.

DISPENSER, woman, Hall qualifications, desires post; Doctor's and Institution experience. Apply 3/40, Office of this

DISPENSER, woman (Hall), experienced in Institution and Doctor's work, desires post; near sea if possible. Address 5/3, Office of this Paper.

NELIGIBLE; unqualified; 31; first-class experience; discngaged. "Archer," 12 St. Ethelbert Street, Hereford.

LADY Dispenser (Hall), experienced, desires post; London Doctor, Hospital, or Institution; would take temporary or Locum work. "C.," 98 Sutton Court, Chiswick.

ADY Dispenser, Hall, three years' experience, desires permanent post; Doctor preferred. "Materia" (275/6), Office of this Paper.

LADY Dispenser requires post (at once); Doctor preferred; Hall qualifications. Apply L. S., 68 Lorne Road, Leicester.

LADY Dispenser, Hall, experienced, requires post in London;
Hospital or Doctor preferred. Address Headley, Hopkinson
House, 88 Vauxhall Bridge Road, S.W. 1.

ADY Pharmacist, nine years' experience, seeks post; Institution or Doctor; Surrey or Sussex preferred; free September 30th. Apply 4/7, Office of this Paper.

ADY (Minor) desires evening work in good Retail business; Paper. Replies to be addressed to 5/18, Office of this

IVERPOOL.—Chemist (qualified), long experience, exempt from military service, free for engagement from 1st October; no objection to. "locum" if distance not too remote. Apply 5/23, Office of this Paper.

L OCUM; lady Dispenser (Hall) disengaged. "Dispenser," 19 Philip Road, Ipswich.

OCUM Manager; disengaged October 1st; Major; age 50; height 6 ft.; extensive experience; no N.H.I. Locum, c/o Mr. Cox, Chemist-Optician. Kettering.

OCUM; disengaged September 24th. "Fides," c/o Charles Gilling, Chemist, Station Road, Sunningdale.

LOCUM Dispenser; Hall; experienced; disengaged September 19th; Doctor preferred. Miss Saul, 129 High Street, Brentwood, Essex.

OCUM; best references; disengaged October 5th. "Phenol" (5/22), Office of this Paper.

MANAGER, excellent references, disengaged October 12th. "Sofrol" (5/220), Office of this Paper.

MANAGER, qualified, active, exempt, is open for engagement.

Address 5/14, Office of this Paper.

MANAGER, qualified, competent Prescriber, Dispenser, Photography, disengaged, requires permanency; age 44. Apply 4/15, Office of this Paper.

MANAGER, qualified, desires position of responsibility in up-to-date and modern Pharmacy; thorough knowledge all branches; undeniable references; married; Grade II.; 5½ guineas weekly. State hours and full terms of engagement, "Permanency" (4/14), Office of this Paper.

MANAGER; qualified; over military age; excellent all-round experience; active; good Salesman; recommended; discussaged September 21st. Jones, 29 Fairholme Road; West Kensington, W. 14.

M.R. W. E. WHITE, 7 Market Street, Gainsborough, recommends Locum; disengaged up to 23rd inst. inclusive. Lenton, 12 Gladstone Street, Gainsborough.

NOTTINGHAM.—Unqualified Assistant; over military age; eight years' present berth; salary £3 weekly. K 6, "Guardian" Office, Nottingham.

PART-TIME; Minor qualification; two or three days weekly; male. "Pharmacist," 9 Claverton Street, S.W.

PART-TIME or Relief; lady; unqualified; capable, experienced; Front Counter and Dispensing; West London only. "K.," 22 Blandford Road, Chiswick, W. 4.

PHARMACIST, Wholesale, Retail, Manufacturing, Buying, Correspondence, Control, tall, single, totally ineligible, responsible, progressive post in Newcastle, Middlesbrough, or North-East England. Apply 281/31, Office of this Paper.

PHARMACIST, for family reasons desiring to go North (Glasgow or neighbourhood), requires a permanent post as Manager; Chemist or Company; age 51, tall and active, good appearance; salary £6; thoroughly experienced, and accustomed to take sole control; excellent references. Apply "South" (4/18), Office of this Paper.

PHOTOGRAPHY; Developing, Printing, and Enlarging; three years' experience with Chemist; young lady requires reengagement. What offers? Martin, 30 Waverley Road, Exmouth.

QUALIFIED Manager, 30, Grade 3, with first-class experience in all branches of Pharmacy, able and accustomed to control large staff, seeks change; excelent references; liberal salary essential. Apply 3/8, Office of this Paper.

QUALIFIED Manager; incligible; married; reside on premises; permanency; interview. Apply 2/40, Office of this Paper.

 $\mathbf{Q}^{ ext{UALIFIED}}$, aged 49 years, unquestionable character, desires post within easy rail of Matlock. Brookes, Tansley, Matlock.

QUALIFIED; 42; Grade 3; Manager or Assistant. "Phar macist" (3/26), Office of this Paper.

QUALIFIED Chemist, 48 years of age, straightforward, active, and industrious, seeks Managership with Chemist or Stores; prefers busy shop; no one need apply who offers less than £250 a year; free end of October. Apply 1/36, Office of this Paper.

QUALIFIED Locum; Branch; part-time. Chemist, 26 Telford Road, Westbourne Park, W.

QUALIFIED; 28; Grade III.; good experience; four years' last situation; Leicester or near. Full particulars and terms, E. Spackman, St. Davids, Pembrokeshire.

QUALIFIED, Grade 3, seeks permanent post; South Wales preferably; present situation three years as First to largest shop in S. Wales; age 29, good address and appearance; excellent testimonials/ Apply 5/31, Office of this Paper.

HORTLY, responsible post, North of England, with chance of succession preferred; exceptional experience, including manufacturing, Dispensing, general Retail, Optical, Photographic; 45; Grade 3; abstainer. J. R., 138 High Holborn.

UNQUALIFIED; 35; single; 16 years' experience Dispensing and Counter; good Prescriber and Window-dresser; rejected; comfortable permanency desired. Roberts, 22 Kensington, Liverpool.

UNQUALIFIED, 24, Grade III., good-class Dispensing, Counter and Photography experience, desires comfortable permanency. State full particulars, salary, hours, etc., 4/27, Office of this Paper.

WHOLESALE.

A GENTLEMANLY Assistant, well educated, desires post as Representative or position of trust; age 31; 15 years' Retail experience (six in London), with initiative, organising ability, and good knowledge of Therapeutics; discharged. Apply 5/34, Office of this Paper.

ADVERTISER, excellent experience manufacturing business, etc., seeks position; good supervisor; methodical; disengaged; Grade 3. "H. N.," "The Nest," Heston Road, Hounslow.

A DVERTISER, 44, free from military service, desires progressive position (London), with scope for own initiative; Retail, Wholesale, Manufacturing experience; good organiser; used to control; good references. "Camphor" (4/6), Office of this Paper.

AS BUSINESS OR WORKS MANAGER.—Highly progressive, energetic, and capable Manufacturing Chemist desires appointment as above. Advertiser has had very unusual experience both as an administrator and as a business builder, and could successfully undertake the entire layout of a new business ab initio. Unexceptionable references. Salary in any circumstances not less than £450. Apply 3/280, Office of this Paper.

BACTERIOLOGICAL Assistant Dispenser; Analysis water, milk, butter, beer, spirit, wine, sputa blood preparation culture media. Brown. 5 Boyce Street, Waterloo Roud, London.

UALIFIED, 23, incligible, requires post with Manufacturing Chemist or Laboratory. Apply 280/18, Office of this Paper

QUALIFIED Chemist, 31, Grade 3, desires to represent first class house; provinces preferred; first-class references. Ful particulars to 3/80, Office of this Paper.

RESPONSIBLE position required by late Director Manager d(14 years); Proprietary Toilet preparations; sound organiser, administrator, and practical; age 44; ineligible. L. G. D., 34 Goring Road, New Southgate, N. 11.

SITUATIONS WANTED.

(Colonial, Indian and Foreign.)

EGYPT.—Officer's young wife will undertake various war work in Cairo; requires very little remuneration; six years' experience with Chemist and Doctors; Apothecaries' Hall qualification; St. John nursing certificates; well recommended. Apply 277/8, Office of this Paper.

MISCELLANEOUS.

A BOUT 2 cwt. Geranium Lake, genuine French (for colouring Toilet Powders and Pomades); 17s. 6d. per lb. Write to Orela, Ltd., 37 Berners Street, London, W.

A FIRM of Manufacturing Chemists want to buy large or small quantities of Tubes for Tooth Paste, Hongroise, etc.; Tins, Cardboard Boxes, Glass Bottles, and Jars; also Packing Cases. Full particulars to 277/36, Office of this Paper.

SECOND-HAND CHEMISTS' FITTINGS.—We have an exceptionally fine selection of these in all sizes; prices are right, and goods are in first-class condition; we shall be pleased to supply particulars and prices. Call or write, RUDDUCK & CO., 262 Old Street, London, E.C.

HOWCASES AND SHOP FITTINGS.—Several fine Silent Salesman Showcases and Counters; quantity of useful Shop Fittings; low prices. Write inquiries, Philip Josephs & Sons, Ltd., 93 Old Street, London, E.C. 1.

CLUE.—Two tous powdered Glue, fine quality; three tons bright oblong Glue; 50 cwt. bright square Glue. Write for sample, etc. (stating quantity wanted), to "S. A. D.," c/o J. W. Vickers & Co., Ltd., 5 Nicholas Lanc, E.C. 4.

250,000 Saccharin Tablets; $\frac{1}{2}$ grain, 550 in 1; fine quality; 1,000 @ 188. 3d., 5,000 @ 178. 9d.. 10,000 @ 178. 6d., 25,000 @ 178. 3d., 50,000 @ 178., 100,000 @ 168. 6d.; 1 lb., about 7,500. for 46 10s.; cash with order; registered post free. Walter Travis, 203 Whitecross Street, E.C. 1.

100,000 $^{\frac{1}{2}}$ gr. 330 Saccharine Tablets, guaranteed full @ 19s. 6d. 1,000; immediate delivery; cash with order; postage 1s. extra. Moore, Dept. A, 1 Rochampton Street, Victoria, S.W.

EXCHANGE COLUMN.

One halfpenny per word with name and address. One penny per word if we register the address and attach a number.

No advertisement inserted for less than 6d.

FOR DISPOSAL,

BOOKS AND PERIODICALS.
BOOKS: Chemistry, Physics, Maths., Languages, History. Bowyer,
10 Marlborough Road, Dartford.

DENTAL.

SEVEN Celluloid Full Upper Showpieces. R. Lamb, 123 West End Lane, London.

DRUGS AND CHEMICALS.

8 LB, genuine Ol. Menth. Pip., B.P., 1 lb., 22s. 6d.; 2 lb., 42s. 6d. Carriage paid. Hudson, Chemist, Skegness.
WHAT offers for 70 lb. Pu. Gentian, for Vet. purposes; 12 lb. Pu. Grains Paradise. Beavon's Drug Stores, Bilston.
½ LB. Ol. Carui Opt., 7s.; 1 oz. pure Guaiacol, 8s.; ½ oz. Gueiacol Carb., 4s.; 15 grs. Atropine Sulph., 4s.; 1 oz. Strychnine B.P., 7s.; ½ lb. Tr. Cannab. Ind., 4s. Rugg, Redbourne, Herts.

OPTICAL AND PHOTOGRAPHIC.

1 CWT. Sodium Carbonate Crystal Photographic, 12s. 6d. free on rail. Finlayson, Pharmacist, Stockton on Tees.

MISCELLANSOUS.

RUBBER Water Bed, new, 76 × 36. Hemmings, Chemist's Stock Buyer, 2 Scylla Road, Peckham, S.E.

OFFERED.—9 ct. gold (Hall-marked) Astlg. Eyeglasses and S'S Spects, 1 Eye, 3½ to 4 dwt. Offers wanted. Hall, Chemist, Phetrop

NEW round Tins, lift-off lids, 4 doz. 7 by 5 in., 6 doz. 6 by 3; strong Iron Drums, clean, perfect, 6 5-gall., 1 10-gall., 1 20-gall. What offers? Kenp, Druggist, Horncastle.

OAK Vats (2 100-gal. with lids, 1 50-gal.); Tincture Press, quart, 20s.; Copper Boiling Pan, on stand, 10 gal., fitted gas, 80s.; Semi-Rotary Pumps, No. 1 (fron), 60s., brass 80s., large (brass, on stand) 150s.; Roberts No. 1 Bottle Filling Machine, nearly new, £18; Hand Bottle Brushes, jam or pickle size, 9s. doz. Jackson, Pownall Square, Liverpool.

HOUSEHOLD Soap wanted. Apply Hudson, Chemist, Skegness, GLYCERINE; good price given. Parris & Greening, 105 Church Road, Hove.

PETROL Halm, any size; state prices. Hay, Chemist, 476 Union Aberdeen.

COMPOSITION Mortars, several wanted; state size and price. Russell, Chemist, Windsor.

PURE Acetic Acid; large or small quantities wanted. Apply 3/27. Office of this Paper.

TYPEWRITER wanted, second-hand or new. Apply W. B. Cartwright, Ltd., Rawdon, ur. Leeds.

OPTICAL Trial Case wanted. M. Blumenthal, M.P.S., 164 Lightbowne Road, Moston, Manchester.

bowne Road, Moston, Manchester.

WANTED, 15-gr. Suppository Moulds. Lambert, Son & Watkins, 60 and 62 Queen's Road, Dalston.

WANTED, Carboy of Acetic Acid for cash, or exchange acctone and cash; urgently. 281/52, Office of this Paper.

4 OZ. 10 oz., 20 oz. W.M. Bottles for Emulsion; Kalis preferred; 5 gross or so of each. Apply Cormack, Chemist, Blyth.

QUININE Sulphate, Pot. Permang., K.I., Morph, Hydroch.; surplus Drugs bought for cash. Forryan, 40 Duncan Road, Leicester. WANTED, one Horn's Standard Double Truss, size 40, with size 7 side pieces; hard rubber; state price. 1/37, Office of this Paper.

WANTED, firm to execute order for 100 gross 7 and 15 oz. Speciality Bottles; delivery by November 1st. Apply 173/65, Office of this Paper.

Office of this Paper.

OPTICAL Trial Case, any size; Dispensing Screen and Counter Cases in good condition. State particulars and price to Pollard, 14 Regent Street, Dawlish, Devon.

WANTED, 5 F.P.K., good condition and new model; also other Cameras and Photo requisites; S.F. Astig Eyeglass and C/S Spects; also 1-Eye lens. Hall, Chemist, Blackpool.

WANTED, Window Enclosure, about 10 ft. wide × 6 ft. high; also Dental Fountain Spitoon, Tilchan Lamp and Bracket; outside Lamp. S. G. Spence, Market Place, Ilkeston.

BRASS Pestic and Mortar; old Blue Drug Pots. Bluck, 125 Lincoln Road. Peterboroagh.

GLACIAL Acetic Acid wanted. State quantity and price, Hirst,

Road, Peterborough.
GLACIAL Acetic Acid wanted. State quantity and price, Hirst,
81 Somers Road, Southsea.
GLYCERINE, Toilet Rolls, Vacuum Flasks, and Roll Films. State
price. Hay & Co., Chemists, Gosforth-on-Tyne.
CINTMENT MILL in good condition. Send details and price to
Chemist, 13a St. Paul's Avenue, Willesden, N.W. 2.
To buy, 1.000 or 2.000 gross No. 2 and No. 3 Screw-capped
Tablet Bottles. Apply 148/55. Office of this Paper.
SUGAR of Milk (any quantity). State quality and price for cash
against delivery, James, 13 Crownhill Road, Harlesden,
N.W. 10. GAR of Milk (very, James, 15 Crownshill Road, Harles-against delivery, James, 15 Crownhill Road, Harles-COA Butter, Sweetened Milk, Cocca, Sugar of Milk (any quantities). James, Chemists, 13-15 Crownhill Road, Harles-

quantities). James, Chemists, 13-15 Crownhill Road, Harlesden, N.W. 10.

WANTED, Radium Salt, pure or Residues, old Applicators, etc.
Apply Farrison Glew, Radium Laboratories, 156 Clapham
Road, S.W. 9.

OPTICAL books, Minor, Major, Chemists' books; send prepaid for valuation, cash offers per return. Gower, Bookseller, 41 Vol-taire Road, Clapham, S.W. 4.

BIG prices paid for Stokes' or Colton Tablet Machines; Pill Machinery also wanted. Particulars to 78/58, Office of this Paper.

JOB line Tins wanted, suitable for Boot Porksh, etc. We as also buyers of Tin Plates, printed or plain. "Brytenup Polish Works, Marsh Lane, Preston.

The "STANDARD" Retail Price List

is fast increasing in popularity; the best List, like the best Drugs, is always worth its fee. Built on definite systems with definite percentages of profit, already adopted as a guide by the leading London Stores—in fact, it is FACE VALUE for Drugs. No Chemist is wise to be without it. Specimen copy post free 1/3. Annual subscription 9/- Published monthly by

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Three-quarters Retail Price for ROLL FILMS of all kinds.

Out-of-date films bought for experimental purposes.

If you have anything photographic, cameras. apparatus or supplies you cannot sell, send it to us now. It will never be worth so much to you again.

Ask your nearest chemist friend if he was satisfied with the price we paid him. He'll tell you.

> All remittances immediately and all goods returned CARRIAGE PAID at once, if required.

This is what a leading Pharmacist says of our business.

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"I am obliged for your cheque in settlement of photographic goods recently sent you. I can only repeat my complete satisfaction with your methods, and although I do not expect an expression of opinion from a small business like mine is of any value, I hope you will refer to me if you have anyone in this district to whom such opinion would be of interest."

WATSONS',

The Camera House,

84 High Street, Sheffield. Tel. No. 27.

SACCHARIN TABLETS.

Absolutely Pure and Soluble.

Made from finest Monsanto (American) Saccharin.

In 1 lb. boxes containing 8,000, 15/6 per 1,000. Prompt delivery by registered post. Cash with order. Attractive Window Bill enclosed.

WATSON & CO. Tablet Manufacturers, Loughborough. Cheques to be crossed: London City & Midland Bank, Loughborough.

ROLAND TRADING 46 DOVER STREET, W. 1. SACCHARIN TABLETS

‡ gr. in 1, 330 strength in each (Monsanto). 14/- per 1,000 ... 100,000 @ 13/6 ... 500,000 @ 13/Reduction for large quantities.
Cash with Order. Immediate Delivery. 5,000,000 Weekly.
Wholesalers and large Consumers.

4 grain 330 SACCHARIN TABLETS.

50,000 @ 13/6 per 1,000

100,000 @ 250,000 @ 13/-

 $12/10\frac{1}{2}$,

Deliveries per return. Can arrange deliveries over 4/5 weeks. H. RAWLINSON, 19 Cannon Street, MANCHESTER.

Saccharin Tablets.

1 gr., 330 in 1. Guaranteed the Genuine Article.

Delivery per return. Reg. post paid. Special quotations for large quantities.

HENRY BOWN, Chemist, 154 Cemetery Road, SHEFFIELD.

Telegrams: 2742 Sheffield.

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SWEETENING TABLETS OF PURE SACCHARIN (Monsanto)

† grain 330 in each tablet. 14/6 per 1,000; 14/- per 1,000 for 20,000; 13/6 per 1,000 for 100,000. Reduction for larger quantities. Cash with order. Carriage paid.

UNCONTROLLED SACCHARIN TABLETS.

UNCONTROLLED SACCHARIN TABLETS.

Immediate Delivery guaranteed from large stock.

½ grain 330 in 1; just over 7,000 to the lb.—

½ grain 330 in 1; just over 7,000 to the lb.—

½ grain 330 in 1—

Special quotations for quantities.

5,000 @ 14/10, 10,000 @ 14/6, 25,000 @ 14/3, 50,000 @ 14/-.

Superior qual. Finest Tabs. made. Reg. post free. ¿ Cash with order.

W. TRAVIS, 203 WHITECROSS STREET, LONDON, E.C.1.

SACCHARIN TABLETS

Highest quality and finish.

110/- per lb. C.W.O. POST FREE. NO WAITING.

FRANCIS HALLAM, LTD., Rexall Pharmacy, Burton-on-Trent.

SACCHARIN

Gnaranteed absolutely pure and soluble.

3 grain 330 in 1 grain. Made from finest American 550 Saccharin,

10,000 lots at 16/6 per 1,000 25,000 16/3 ,, 100,000 16/-

Cash with order. Immediate delivery. Registered post paid.

AUSTIN, Wholesale Chemist, Saltley, Birmingham.

COTTON WOOL 2/2 per lb.

in 1 cwt. lots; 56 lb. at 2/2½. Carriage paid. Cash with order. Wrappers 3/6 extra, and are returnable. The wool is white, absorbent, and interleaved. Sample for stamp. Special price for bigger lots. Super quality at reasonable prices.

JAS. Q. MILLS, Chemist, Platt Bridge, WIGAN

TEA SWEETENERS. 'Aspanco' Brand The Saccharin Tablet "par Excellence."

We were the original advertisers of this line twelve months ago, and have not changed our quality. We have hundreds of satisfied customers.

Any quantity supplied. PRICES:

Less than 5,000, 16/3 per 1,000; 5,000 @ 16/-; 10,000 @ 15/6; 20,000 and upwards, 15/- per 1,000. Cash with Order. Registered Post Free.

A. S. PRICE & CO., LTD., Blackheath, Birmingham.

"HOLMIER" BRAND

COMPOUND SACCHARIN TABLETS.

One is equal to a teaspoonful of sugar.

Made with American 550 Saccharin, @16/3 per 1000; 5,000 @ 16/-; 20,000 @ 15/6; 50,000 @ 15/- Net c.w.o. Immediate Delivery.

MEYER, Manufacturing Chemists, BIRMINGHAM.

P.A.T.A. NOTICE.

The prices announced below will come in force as from the date of this issue :-

Minimum Retail Price: Minimum Wholesale Price. ... $11\frac{1}{2}$ d. $\begin{cases} 8/10 \\ 8/6 \text{ by grs.} \end{cases}$ 112d. Allcock's Porous Plasters ...

AX Anglo-American Co. Ltd.'s Goods-

1'-	2 oz.	Zita Ab	sorbent Dus	sting Pdr.	No. 2	1/-	7/- \
2/8	8 "	,,	,,		**	2/8	24/- extra
4/-	16 ,,	,,	,,_		,,	4/-	36/- 22 %
1/3	2 ,,	Huxley	's Plasma D				7/- > 5 grs.
1/3	2 ,,	**	19	,,	stpd.	1/3	10/- ord-
13	2 ,,	**	Baby Dus			1/3	7/- ers.
1/3	2 "	"	29	**	stp 1.	1/3	10/-1

... 11d. $\begin{cases} 8/8 \\ 8/5 \text{ by } 6 \text{ doz.} \\ 8/3 , 12 , \end{cases}$ 11d. Bourjois, Java Powder Bronnley's Viotto Perfume 2/8

9/6 17/6 ... 9/6 ... 17/6 140/-... ... 3/3 ... 6/-... 1(/5 3/3 6/-10/6 26/-Havanita Perfume),),),), ... 19/6 156/-19/6 4/9 38'-9/- 72/-17/3 138/-33/- 264 Omar Khayyam Perfume 4/9 4/9 22 22 22 23 ... 1/3 33/-1/3 Erasmic Tooth Paste ... "... ... 1/3 10/6 less usual dis. ... 9½d. 7/9 less 5% dis. on ... 1/3 12/- dis. on ... 3/- 29/-) £51_ts 95d. Whelpton's Pills (both kinds)

22 22 29 NOTE-No alteration for Ireland.

Telephone: Avenue 383.

NO DELAY.

Sweetening Powder

Guaranteed 80/85 times sweeter than sugar. All ingredients guaranteed B.P., at £4 2s. 6d. per lb.

Saccharin Tablets

‡ gr., 330 strength, 7,000 to lb., at £5 5s. per lb. IMMEDIATE DELIVERY.

N.L. SCALIARIS, 89-90 Leadenhall Street, LONDON, E.C.3.

SACCHARIN

(Made from the best Monsanto American powder).

† grain in one.
10,000 @ 16/- per 1000
25,000 ... 15 10 ...
50,000 ... 15/8 ...
500,000 ... 15/8 ...
16/2 per 1000.

grain in one.

10,000 @ 18/6 per 1000

25,000 ... 18/4 ...

100,000 ... 18/2 ...

500,000 ... 18/- ...

Packed in boxes of 1000 18/8 per 1000

Cash with order. Carriage Paid.

Prompt delivery.

THE B. & A. TRADING CO. 6 St. George's Terrace, Regent's Park, London, N.W. 3.

Saccharin Tablets

(GUARANTEED STRENGTH)

IMMEDIATE DELIVERY.

NO WAITING.

1 lb. for £6 18 6 per lb. 9 lbs. for £6 10 0 per lb. 5 lbs. ,, £6 15 0 20 ,, £6 **5** 0

SWEETENING POWDER 80 times as Sweet as Sugar, At £4 5 0 per lb.

The Lawrence Saccharin Tablet Co.

36 Camomile Street, London, E.C. 3. We are open to appoint first-class agents and travellers, correspondence invited.

SWEET LEAF

THE MOST CONVENIENT

FOR SWEETENING BEVERAGES.

Supplied in booklets of 60; handy for waistcoat New improved issue, 9d. retail.

Trade Discount: 1 gross, 20%; 10 gross, 25%. Place your orders early. All orders filled in rotation. Terms Cash.

W. DIVINE, 104 High Holborn, W.C. 2.

YOU CAN MAKE MONEY & HELP TO SAVE SUGAR by SELLING

Splendid for Cooking, and for Sweetening Tea, Coffee and Cocoa. Many Chemists are selling £10 to £20 worth weekly. Why not you? It can be recommended with confidence.

Retails $7\frac{1}{2}$ d., 1/2 & 2/3 per pkt. Wholesale 5/9, 11/- & 21/- per doz.

A Cheque for £2:4:3 will bring you per return 3 doz. $7\frac{1}{2}$ doz. $1\frac{1}{2}$ doz. 1/2, $\frac{1}{2}$ doz. 2/3, with Showcard and Window Bill. Terms Cash with Order—direct only.

THE GREENWICH LEMONADE CO., 209 Trafalgar Road, Greenwich.

Telegrams-"CORTLIMON, GREEN, LONDON."

ALCRESTA TABLETS OF IPECAC



LILLY

Uncoated, Disintegrating

Easy to Take

Cause No Nausea

Permit the Oral Administration of Massive Doses of Ipecac

Each tablet contains the alkaloids of ten grains of Ipecac, U.S.P., combined with a form of hydrated aluminum silicate. The tablet dis-

integrates readily, but the compound passes through the acid juices of the stomach unchanged and liberates the Ipecac alkaloids in the alkaline secretions of the intestines; thus the nausea and vomiting are avoided.

Prescribed by Both Physicians and Dentists

BY PHYSICIANS—In Amebic Dysentery, Amebic Infections of the Tonsils, Typhoid Fever and various Intestinal Disturbances.

BY DENTISTS-In Pyorrhea as an aid to dental instrumentation in which they are as efficient as hypodermatic injections of emetine.

Supplied in Bottles of 40 and 500 Tablets

ILLY'S DENTAL LOTION

An Emetine Prophylactic Mouth Wash, Useful in Pyorrhea; also prescribed in Tonsillitis. Pharyngitis and Stomatitis.

Effective and Pleasant in Flavor—A Steady Repeater

Supplied in 3-oz. and 1-pint Bottles Order Through Your Wholesaler

Further Information on Request

Agents for Great Britain JOHN MORGAN RICHARDS & SONS. LTD. 46-47 Holborn Viaduct, LONDON, E. C.



ELI LILLY & COMPANY

Principal Office and Laboratories, INDIANAPOLIS, U. S. A.

THE BRITISH DRUG HOUSES



EASTERN FOAM

The volume of orders received in response to our announcements has been overwhelming. The indulgence of our customers is requested during the time which must elapse before deliveries can be completed.

The output at present is restricted largely by the lack of sufficient supplies of glassware. Pharmacists can assist us, and consequently themselves, by encouraging the public to return all empty pots, which can be sent to us with other empties and are allowed for at the rate of 1s. 6d. per dozen, if received complete and in good condition. For the pots alone, without fittings, 1s. od. per dozen is allowed.

22-30, Graham Street, City Road, London, N. I.